TERNAKOV, V.S.; SPIRIN, S.A.; CHIEHOV, D.G.; UGORETS, I.I.; LAVREMENKO, K.D.;
SMIENOV, G.V.; CHUPRAKOV, H.M.; MKHIZARTAM, S.G.; ASHOLOV, G.L.;
KOZILEVIKIY, A.M.; NOLUKAKOV, S.I.; SYRONIATWIKOV, LA.; PAYEMAN, S.Zs.;
SOKOLOV, B.M.; KOMISSAROV, Tu.P.; HAMPUTE, I.P.; POBROAILO, K.M.;
HORYAKOV, A.V.; MELANGO, M.F.; KUMSIASHVILI, P.G.; GARKAVAYA, L.A.;
LIVSHITE, H.M.; HEKRASOV, A.M.

Noisei Vul'fovich Safre; obituary. Elek.sta. 24 no.11:60 N '53.

(MIRA 6:11)

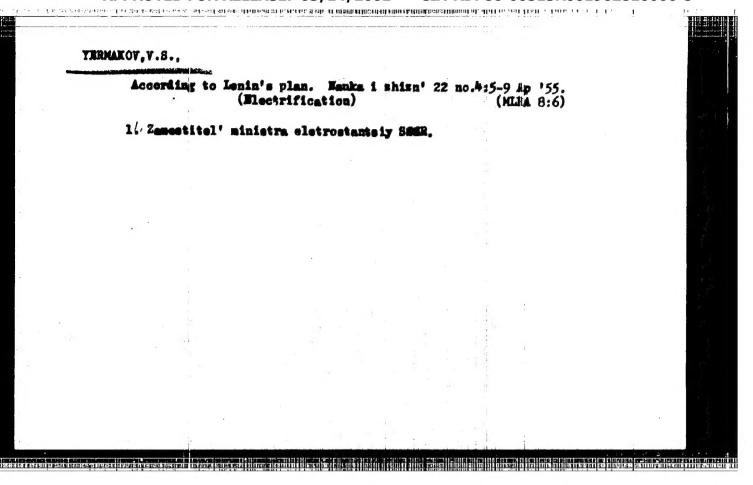
(Safre, Noisei Vul'fovich, 7-1953)

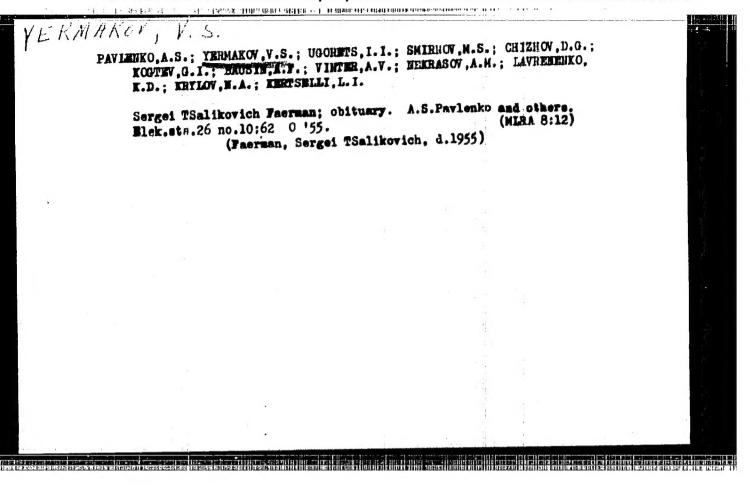
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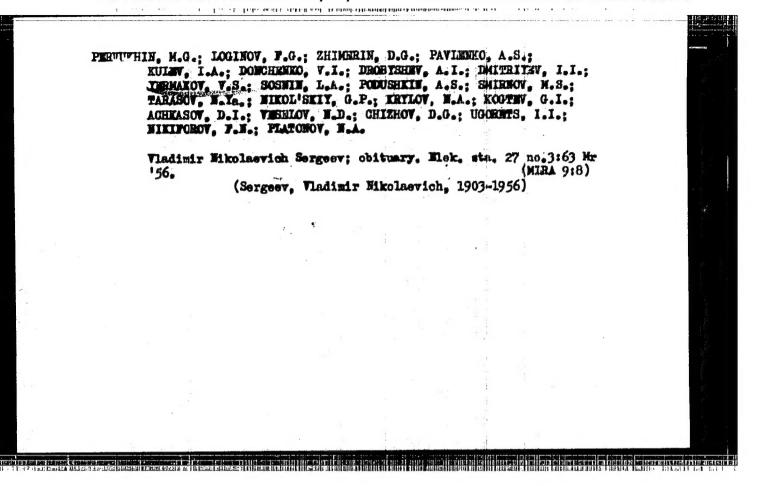
TERMAKOV, V.S.; KLOCHKOV, I.M.; CHIZHOV, D.G.; KOOTEV, G.I.; LAVREMENTO, K.D.; MERRASOV, A.M.; SPIRIE, S.A.; VESELOV, M.D.; KOTILEVSKIY, D.G.;
SMIRHOV, G.T.; MARIHOV, A.M.; MAKRIMOV, A.A.; IVAROV, M.I.; REMOV, A.P.;
CHOPPAKOV, M.M.; AVTONOMOV, B.V.; SYROMTATRIKOV, I.A.; MCLOKAROV, S.I.;
PAREMAN, S.TS.; GORSHKOV, A.S.; GOL'IMBERERG, P.S.; SOKOLOV, B.M.; MAKUSHKIN, Ta.G.; MCHITARYAM, S.G.; RASSAURIKOV, Ye.I.; GHUDIRSKIY, P.G.;
POMICHEV, G.I.; SHCHERBININ, B.V.; KAYTSHV, V.I.; KOKOREV, S.V.; KLYUSHIM, M.P.; PESCHARSKIY, V.I.; SAFRARMENYAM, G.S.; 1 dr...

IUTil Prokhorovich Komissarov; obituary. Elek.sta. 25 no.5:60 My '54.
(Komissarov, IUTil Prokhorovich, 1910-1954) (MLRA 7:6)

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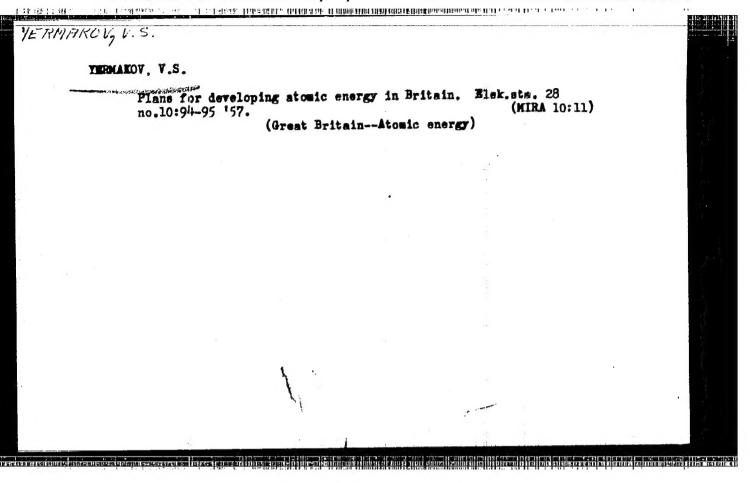


MALENKOV, G.M.; PERVUKH.N, M.G.; KUCHERMEKO, V.A.; ZHIMERIN, D.G.; LOGIMOV, F.G.; PAVLERIO, A.S.; YERMAKOV, V.S.; YINTER, A.T.; DMITRITEV, I.I.; UGGERTS, I.I.; REMITIN, N.V.; VOZHENNSKIY, A.M.; VASILERKO, P.I.; BORDVOY, A.A.; NOSOV, R.P.; MRISTOV, V.S.; ERLYAKOV, A.A.; RUSSO, G.A.; VASILIYEV, A.F.; HAFKIN, V.P.; TERMAN, I.A; ORLOV, G.M.; CHUMACHENKO, N.A.; BESCHINSKIY, A.A.; YAROSH, V.F.

PRVel Pavlovich Laupman; obituary. Gidr. atroi. 26 no.5:62 My '57. (Laupman, Pavel Pavlovich, 1887-1957) (MIRA 10:6)

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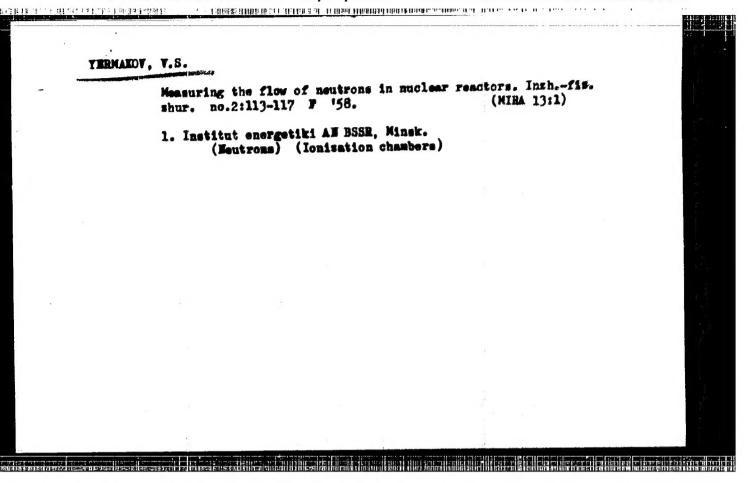
YERMAKOV, V.S., Cand Tech Sci -- (diss) "Study of the processes theat transfer in heat-producing of elements of a nuclear reactor." Minsk, 1958, 16 pp (Acad Sci BSSR. Department of Phys Math and Fech Sci. Inst of Power Engineering) 100 copies (KL, 29-58, 132)

- 53 -

IVANOV, A.V.; KERMAKOV, V.S.

Applying Laguerre polynomials to the solution of telegraphic equations. Insh.-fis.shur. no.1:6-16 Ja '58. (MIRA 11:7)

1.Institut energetiki AE ESSE, g.Minsk (Electric circuits) (Calculus, Operational)



YERMAKOV, V.

AUTHORS:

Gel'fond, A., Karandeyev, K., 105-58-4-35/37

Chistyakov, N., Shumilovskiy, N., Levin, M., Yermakov, Y., Kobrinskiy, N., and others

STONE | 250 July - 18 CERTAIN SEPTEMBER OF STRANGE | 30 OF SEPTEMBER AND DESIGNATION OF AN ARCHITECTURE OF A SECOND OF A SECON

TITLE:

V. N. Mil'shteyn (Deceased)

PERIODICAL:

Elektrichestvo, 1958, Nr 4, pp. 94-94 (USSR)

ABSTRACT:

Obituary notice. On January 9, 1958 Professor Viktor Naumovich Mil'shteyn, Dr. of Technical Sciences died at the age of 44. After he finished the Moskau Institute for Power Engineering he worked in industry and as

for Power Engineering he worked in industry and as pedogogue. In 1938 he became Candidate and in 1945 Dr. of Technical Sciences. Since then he was Director of the Chair for Electric and Automatic Apparatus at the Moskau Institute for Aviation imeni Ordzhonikidze. In 1949 he changed over to the Scientific Research Institutes for Systems at the Committee for Standards, Measures and Measuring Apparatus. At the same time he worked as pedogogue at the Penza Institute for Industry and then at the Moskau Electrotechnical

Card 1/2

Institute for Telecommunications. He wrote many

ering at meaning the realist transfer and the second and the

V. N. Mil'shteyn (Deceased)

105-58-4-35/37

publications and many inventions were made by him. His scientific work included the field of theoretical electrical engineering and radio engineering as well as the problems on the theory and the calculation of measuring instruments, automation elements and electromagnetic mechanisms. Before his death he had his monography "The Energetic Relations in Electrical Measuring Instruments" printed. There are 1 figure.

AVAILABLE:

Library of Congress

1. Obituary

Card 2/2

YERMAKOU V.S.

AUTHOR: Yermakov, V.S., Engineer

96-1-24/31

TITIE:

Economic Calculations on Feed Water and Steam Piping (Ekonomicheskiy raschet pitatel'nykh i parovykh

55.15 \$235656-\$\$25.65\$2-\$\$25.65\$2-\$\$25.65\$2-\$\$25.65\$3.65\$2-\$\$25.65\$2-\$25.65\$2-\$2

truboprovodov)

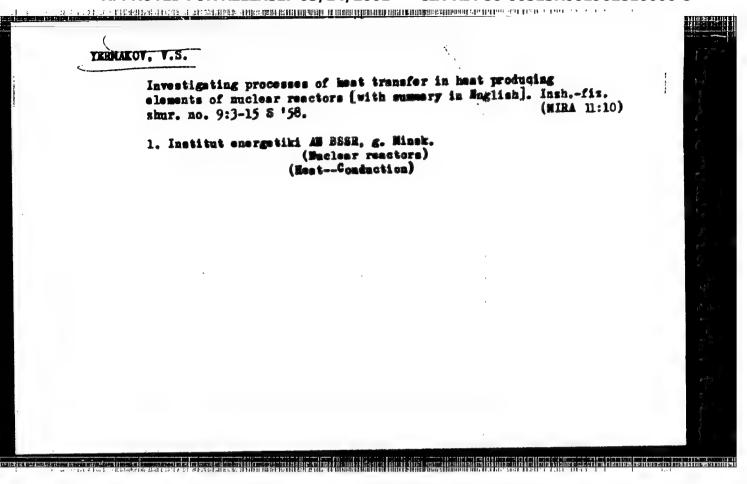
PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, pp. 82 - 83 (USSR).

ABSTRACT: This note gives a brief account of technical and economic considerations in the dimensioning of feed water and steam piping according to British power station design practice. It is taken from the publication "Power Station Auxiliary Plant" by Kennedy and Hutchinson.

There is I non-Slavic reference.

AVAILABLE: Library of Congress.

Card 1/1



VEYELK, A.I.: MERMAKOV, V.S.; LYKOV, A.V.

Applying the Onsager theory to the study of the diffusion of neutrons in absorbing media of nuclear reactors. Insh.-fis. shur. no.10:123-129 0 \*58. (NIRA 11:11)

1. Institut energetiki AN BSSR, g. Minsk.
(Euclear reactors) (Euclear physics)

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SOY/98-58-11-6/15

AUTHORS:

Yermakov, V.S. and Khanin, M.L., Engineers

A STATE OF THE PERSON NAMED IN COLUMN TO A STATE OF THE PERSON NAMED IN COLUMN

TITLE:

The Water Power Resources of the Belorussian SSR (Gidro-

energeticheskiye resursy Belorusskoy SSR)

PERIODICAL:

Gidrotekhnicheskoymstroitel'stvo, 1958, Nr 11, pp 28-34

(user)

ABSTRACT:

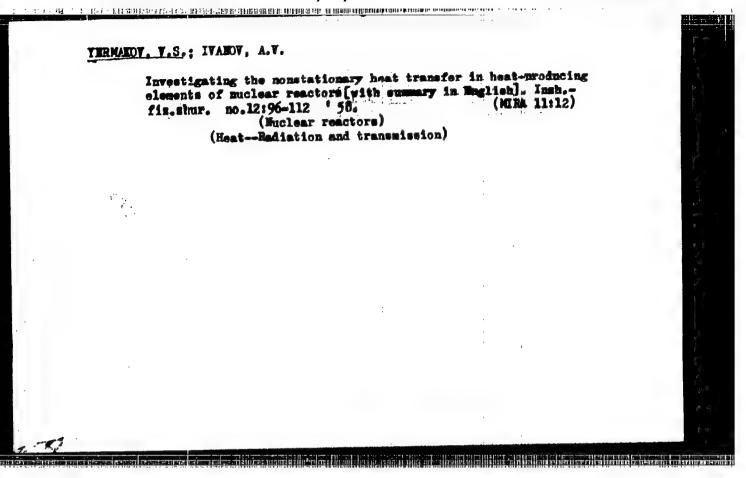
The Belorussian Republic has no hydroelectric power plants on its territory. The needs of industry and population are met by thermoelectric power plants, fuelled mainly with peat. The authors find that the planned construction of hydroelectric power plants will solve the power problems of the republic. The possible locations of these plants on the main rivers are enumerated. There are 2 tables,

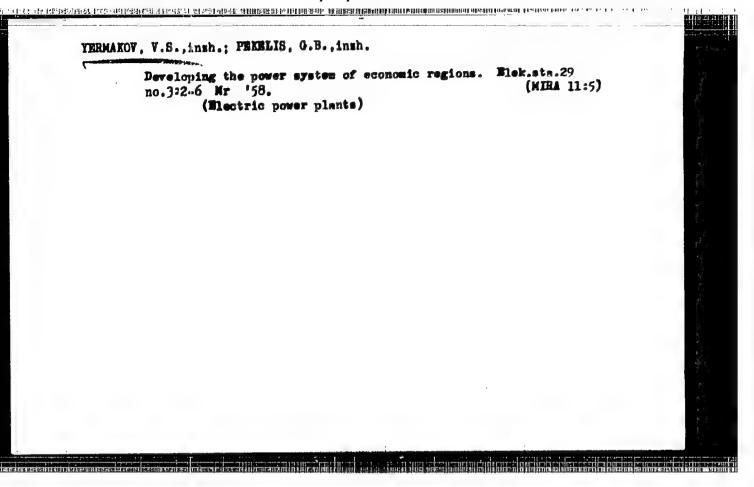
2 charts, 1 profile and 1 graph.

1. Power plants--USSR

Card 1/1

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810006-8"





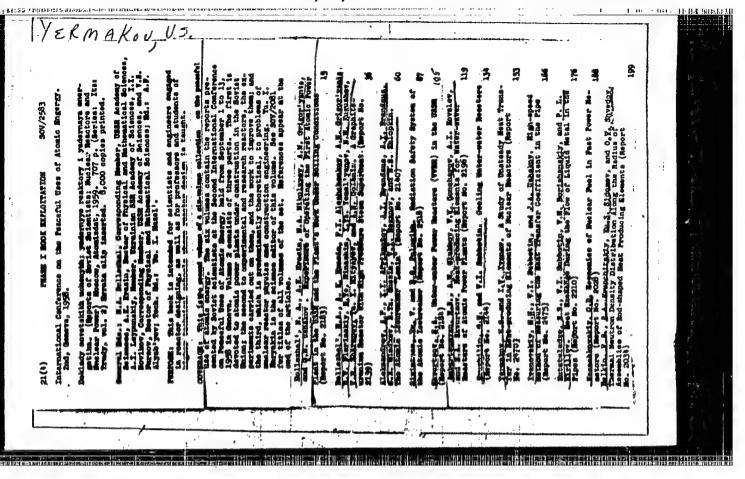
TEMAKOV, V.S., insh.; PEKELIS, G.V., insh.

Profent-day conditions for the development of peat-operated electric stations. Torf. prom. 35 no.5:1-7 '58.

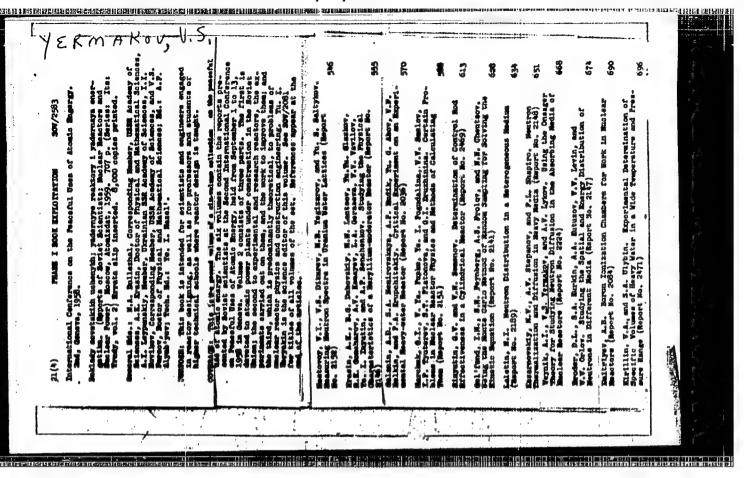
1.Gosplan BSSR.

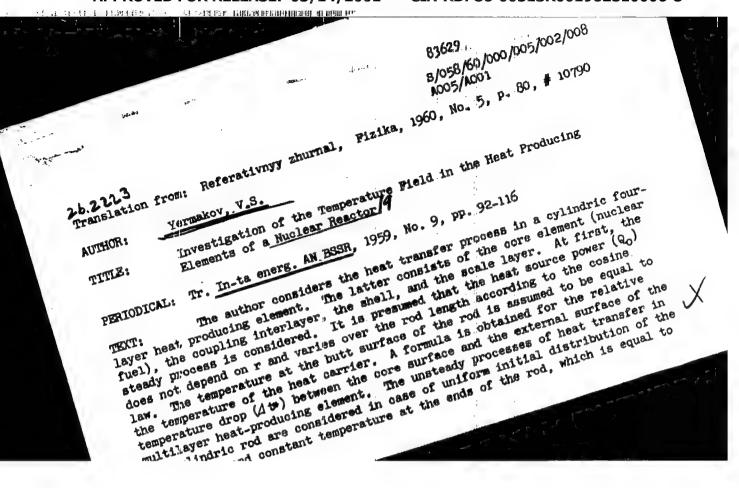
(Electric power plants)

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# "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001962810006-8

83629

8/058/60/000/005/002/008 A005/A001

Investigation of the Temperature Field in the Heat Producing Element of a Nuclear Reactor

the temperature of the heat carrier. A formula is obtained for  $\Delta t^*$  in general form in case of arbitrary functions  $Q(r,z,\mathcal{V})$  and  $q_g(z,\mathcal{V})$  (thermal flux at the lateral surface of the fuel core). The solutions of the problem are considered for specific conditions of heat exchange in the heat producing element of the BBP - (VVR). reactor (uranium rods with d=0.82 cm with steel claddings of 1 mm thickness; scale does not exist). Nomographs are plotted for practical computations of the steady and unsteady heat exchange. The transient conditions of the reactor operation are studied, when  $Q(z,\mathcal{T})$  is an exponential time function. A nomograph is plotted convenient for calculating the heat exchange for the emergency conditions of the reactor operation.

B.A. Levin

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

32429

S/020/61/141/006/014/021 B103/B147

15.9201

11.2211 AUTHORS:

Yermakova, I. I., Dolgoplosk, B. A., Corresponding Member

AS USSR, and Kropacheva, Ye. N.

TITLE:

Cis-trans isomerization of the links of 1,4-polybutadiene

under the effect of nitrogen peroxide

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 141, no. 6, 1961,

1363 - 1365

TEXT: The isomerizing effect of NO2 and its dimer N2O4, of hexaphenyl ethane, and of three disulfides was studied on 2% benzene solutions of a) cis-1,4-polybutadiene, and b) cis-butene-2 in glass ampullas. The content of 1,2 or trans-1,4 links in the polymer was calculated on the basis of the intensity in the maxima 909 and 967 cm<sup>-1</sup>, respectively, of the infrared spectra (spectra taken by Z. D. Stepanova). The change of the cis-trans forms of the butenes was recorded chromatographically during the process (by A. N. Genkin). It has been found that in case a) the cis-links of the polymer chain are isomerized to trans-links, i. e., the more inten-Card 1/3

32429

\$/020/61/141/006/014/021 B103/B147

Cis-trans isomerization...

sively the higher the  ${\rm NO}_2$  concentration. Thus, 23.5 mole% of  ${\rm NO}_2$  results in a polymer with 60% of trans-links. No isomerization occurred at -50°C owing to the tendency of NO<sub>2</sub> to dimerize below O°C. Isomerization seems to be effected merely by the NO<sub>2</sub> form. At +96°C as well as at +50°C, NO<sub>2</sub> is added quantitatively to the double bond. The resulting products are insoluble in a hydrocarbon medium. In case b) similar results were obtained. With a NO concentration of 6 moles, 40% of cis-butene-2 is converted to trans-butene-2 at 90°C within 2.5 hr. The reaction does not reach the equilibrium state, because NO2 is consumed by the addition. Neither hexaphenyl ethane at 96 - 130°C nor diphenyl-picryl hydrazyl at 20° and 60°C cause structural changes of the chain in case a). The disulfides decomposing into free radicals at 120°C (Refs. 1 - 4, see below) only lead to gel formation without isomerization, one radical being added to the double bond. It is assumed that the isomerization under the effect of RS radicals, which is described in Refs. 1 - 4, does not take place owing to their addition to the double bond, but only when an H atom is broken off from the chain. The mercaptan formed in stage 1 takes part in the chain transfer; this results Card 2/3

321:29 s/020/61/141/006/014/021 B103/B147

Cis-trans isomerization ... in the regeneration of the RS° radicals. Such an isomerization has to be accompanied by a migration of the double bond:

There are 2 figures and 11 references: 4 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: Ref. 1: J. I. Cunneen, F. W. Shipley, J. Polym. Sci., 36, 77 (1959); Ref. 2: J. I. Cunneen et al., Trans. Inst. Rubber Ind., 34, 260 (1959); Ref. 3: J. I. Cunneen, W. F. Watson, J. Polym. Sci., 38, 521 (1959); Ref. 3: J. I. Cunneen, W. F. Watson, ib. 533.

Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (All-Union Scientific ASSOCIATION:

Research Institute of Synthetic Rubber imeni S. V. Lebedev)

August 18, 1961 SUBMITTED:

Card 3/3

YERMAKOVA, I.I.; KROPACHEVA, Ye.N.; DOLGOFLOSK, B.A., akademik; KOL'TSOV,
A.I., akademik; NELISIN, K.V.

Interaction of 3-methyl-2-pentene with cation-type catalysts.
(MIRA 18:1)
Dokl. AN SSSR 159 no.48835-838 D '64

1. Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka
im. S.V. Lebedeva.

ITERUSALINGKII, N.D.; AMDREIEVA, Ye.A.; LIROVA, S.A.; YERMAKOVA, I.T.

Hydrocarbon exidation by yeast. Prikl. biokhim. i mikrobiol.

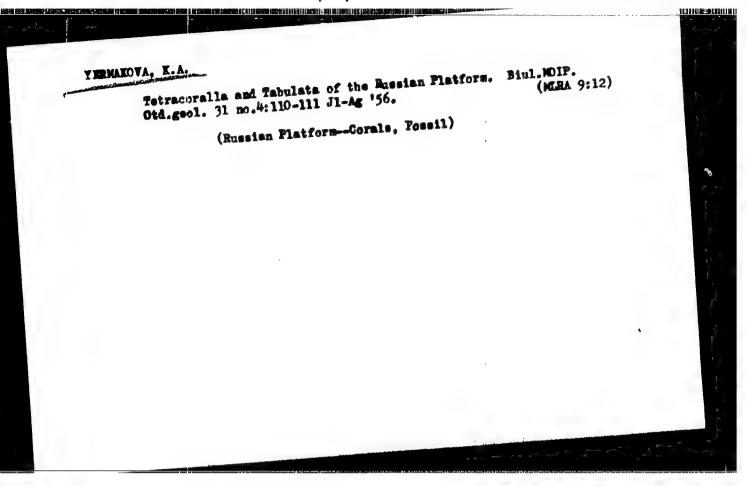
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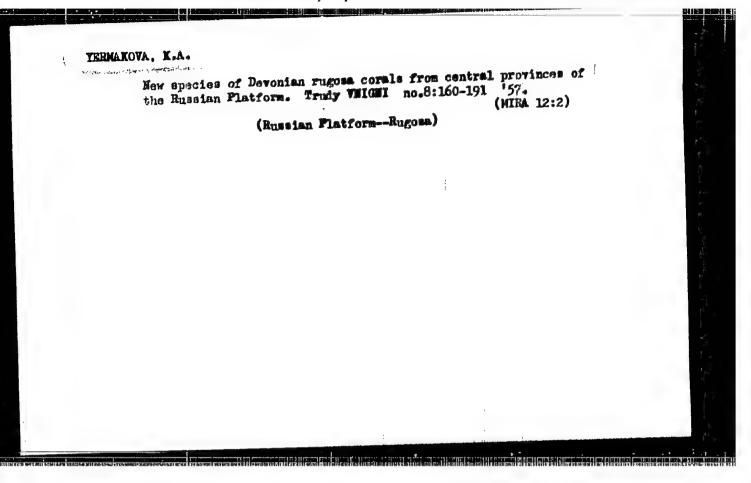
1. Institut mikrobiologii AN SSSR. Submitted Jan. 16, 1965.

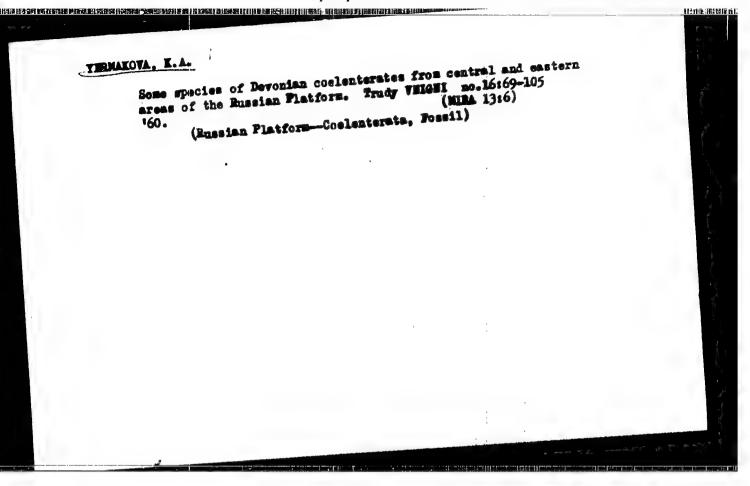
ORG: none TITLE: F SOURCE: TOPIC TAG ABSTRACT: acetonitri was conditor or explos fluorina	Makarov S. P.;  e  luorination of  Zhurnal obshche  S: fluorination  A study has be  ile with free fluoted at 10—150  sions. Hydrogen  tion and had to  were fluoroace	RM/WW/JW SOURCE CODE: UR/OUT Yermakova, I. V.; Shpa liquid acetonitrile with whimii, v. 36, no. 8 n, acetonitrile, free een made of the fluori uorine rarefied with n with vigorous agitati fluoride formed in th be bound with sodium fi conitrile difluoroacet and N,N-difluoro-1,1-dif- ented as follows:	th free fluorine  , 1966, 1419-1420  fluorine, fluorine  nation of liquid  itrogen. The reaction ion. There were no fluorine reaction slowed down fluoride. The reaction	res
Cord 1	/2	UDC: 547.23		

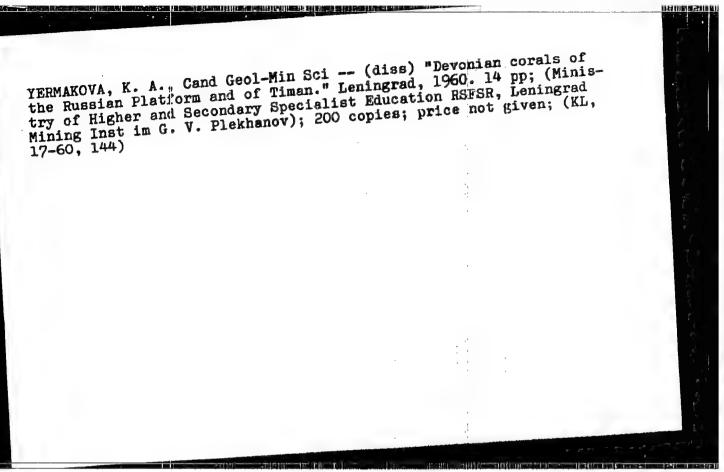
L 05870-67 CC NR: AP6028898	$CH_3CN \xrightarrow{\mathcal{F}_1} [CH_2C\mathcal{F}_{min}\mathcal{F}] \xrightarrow{\mathcal{F}_2} CH_3C\mathcal{F}_2N\mathcal{F}_2,$	
	- CH <sub>3</sub> CN T <sub>5</sub> CH <sub>2</sub> FCN + HF.	
	CH <sub>4</sub> FCN → CHF <sub>2</sub> CN + HF.	
he cyclic product N-difluoro-1,1-	t could have been formed by dehydrofluorin	nation of
	CH <sub>3</sub> CF <sub>2</sub> NF <sub>2</sub> Ne CH <sub>3</sub> CF <sub>3</sub>	[80]
SUB CODE: 07/ S	SUBM DATE: 17Jul65/ ORIG REF: 001/ OTH	REF: 004
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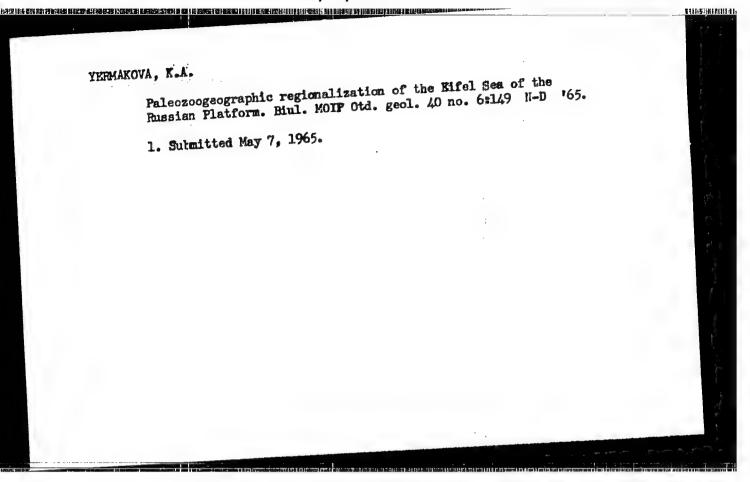
15-1957-3-2685 Referativnyy zhurnal, Geologiya, 1957, Nr 3, Translation from: p 24 (USSR) Yermakova, K. A. New Species of Vesicular Tetracorals (Novyye vidy puzyr-ATTHOR: chatykh korallov rugoza) TITLE: Tr. Vses. n.-i. geol-razved. neft. in-ta, 1956, Mr. 7, PERIODICAL: pp 31-36 The author describes in detail the following species from Middle Devonian (Givetian) rocks on the western slope of the northern Urals: Lythophyllum acquiresiculare sp. n. and L. acutum sp. n. (of the family Cystiphyllidae Roem., subfamily Lythophyllinge Wdkd.). The ABSTRACT: paper has one table. Card 1/1











REZANOV, I.A.; NGO TKHYONG SHAN; SHEYNMANN, Yu.M.; RATS, M.V.; KRUG, O.Yu.;

ZYRYANOV, V.N.; RAKCHEYEV, A.D.; YAKOVLEVA, Ya.B.; PETROVA, M.A.;

PETROV, Yu.I.; KUZNETSOV, Ye.A.; YUDINA, V.V.; BARDINA, N.Yu.;

SIMANOVICH, I.M.; ATANSYAN, S.V.; SERGEYEVA, A.M.; PARFENOV, S.I.;

RUTKOVSKI, Yatsek [Rutkowski, Jacek]; MAKHLINA, M.Kh.; ZVEREV, V.P.;

TERHOVSKAYA, V.T.; SAMOYLOVA, R.B.; YERMAKOVA, K.A.; BYKOVA, N.K.;

MEYMEN, S.V.; BARSKOV, I.S.; IL'INA, L.B.; BABANOVA, L.I.;

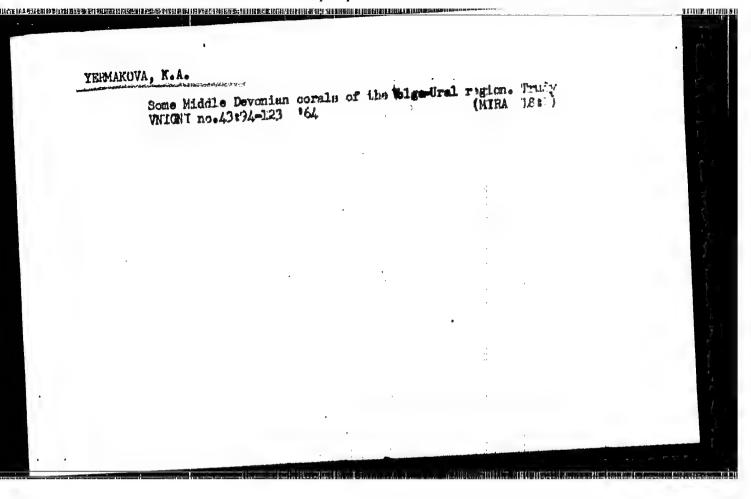
DOLITSKAYA, I.V.; GORBACH, L.P.; BUTS'KO, S.S.; TRESKINSKIY, S.A.;

SVOZDETSKIY, N.A.; PRYALVKHINA, A.F.; GROSVAL'D, M.G.; MODEL', YU.M.;

GORYAINOVA, I.N.; MEDVEDEVA, N.K.; MYALO, Ye.G.; DOEROVOL'SKIY, V.V.;

KHOROSHILOV, P.I.; CHIKISHEV, A.G.

Brief news. Biul. MOIP. Otd. geol. 40 no.3:122-154 My-Je 165. (MIRA 18:8)



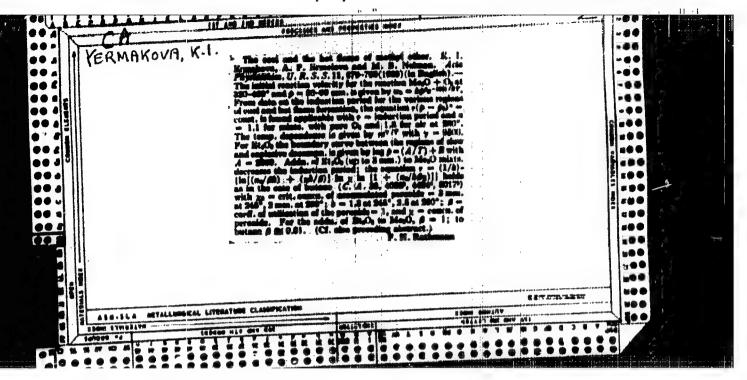
TERMAKOVA, K. G.

QUENTL', P.A.; ANDRETEVA, I.H.; YERMAKOVA, K.G.; TSVETEOVA, 1.V.

If fect of the new tillage system on the basic features in the physiology of wheat. Inv. AN SSER. Ser. blol. no.4:1403-465 JI-Ag '57. (MLRA 10:8)

1. Institut fiziologii resteniy im. E.A.Timiryaneva Akademii nauk BSSER.

(TILLAGE) (WHEAT)



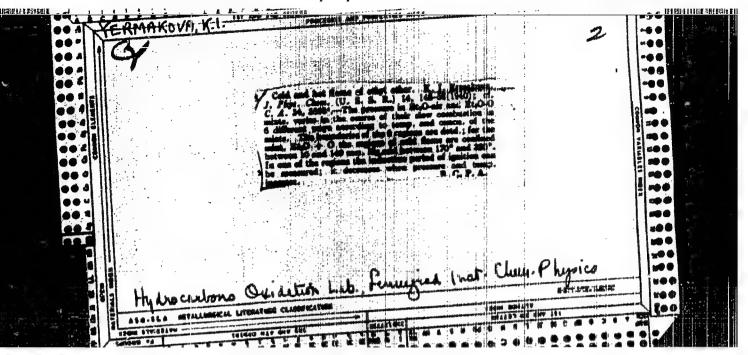
YERMAKOV A4K818

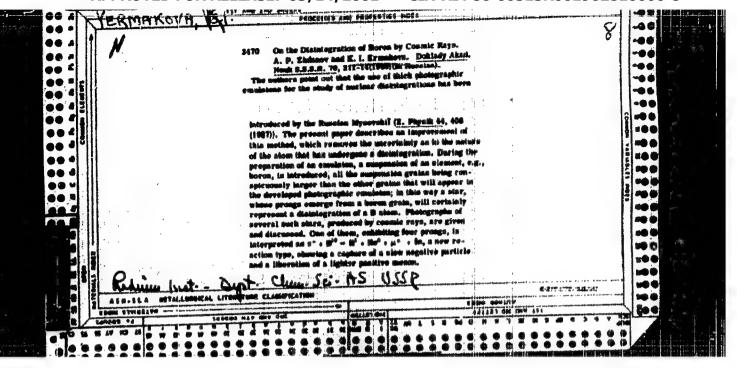
600

- YERMOLOVA, A.P.: NEYMAN, M. B. YERMAKOVA, K.
- USSR (600)

"Research on the Conditions of the Combustion of Gaseous Mixtures - XV. The Cold and Hot Flames of Methyl Ether", Zhur. Fiz. Khim 13, No 12, 1939. Leningrad Inst. of Chemical Physics, Lab of the Oxidation of Hydrogarbons. Received 26 July 1939.

9. Report - U-1615, 3 Jan. 1952.





PERMAKOVA, KII

20-6-11/48

AUTHORS:

Zhdanov, A.P., Berkovich, I.B., Termakova, K.I., Lepekhin, F.G., Skirda, N.V., Modalova, Z. S...

TITLE:

An Interaction of High Energy Particles with Nuclei (0 vzaimodeystvii chastits vysokoy energii s yadrami)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1093 - 1096 (USSR)

ABSTRACT:

The present paper describes the provisional results of the anahysis of seven rays with relatively great number of shower particles, which were produced in the interaction with emulsion nuclei. When inspecting one particle of the staple of Ilford G-5 emulsions (Il'ford G-5), which was irradiated for seven hours in a height of about 30 km, the authors chose that irradiation which was produced by neutral and charged particles. When analysing these cases rather reliable data were obtained only on the number of shower particles and on the angular distribution of which. The angles between the direction of motion of the primary partilce and the traces of the secondary particle were measured by the coordinate-method by the aid of the microscope MBI-8. The characteristics of these distributions are compared in a table. The authors graphically represented

Card 1/3

20-6-11/48

An Interaction of High Energy Particles with Nuclei

the dependence (1/N) N(0)d0 on 0. All rays were subdivided into three types. The Fays of the first type, which are characterized by a narrow cone, have a symmetrical integral distribution. The rays with a considerably larger cone and a higher number of charged particles belong to the second type. A further diagram illustrates the angular distribution for such ray in which not even within the range of small angles a symmetry can be ascertained. Each theoretical investigation of the mechanism of producing elementary particles statts from the symmetrical flying off of the developed particles in the center-of-gravity system. This corresponds to a certain symmetry of the angular distribution in the laboratory system. This symmetry is actually observed in the element. The most essential statements of the theory of Fermi-Landau can be applied to these cases. There are 4 figures, 2 tables and 8 references, 3 of which are Slavic.

**Curt** 2/3

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20-6-11/48

An Interaction of High Energy Particles with Nuclei

ASSOCIATION: Radium-Institute imeni V.G. Khlopin, AN USSR

(Radiyevyy institut im. V.G. Khlopina Akademii nauk SSSR)

PRESENTED: April 4, 1957, by A.F. Ioffe, Academician

SUBMITTED: March 26, 1957

AVAILABLE: Library of Congress

Card 3/3

 YERMA KOVA, C.A.

8/181/60/102/04/25/034 B002/B063

14.7700 AUTHORS:

Koptsik, V. A., Yernakova, L. A.

TITLE:

Investigation of the Temperature Dependence of Electric and

Elastic Parameters of Cancrinite

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 697-700

TEXT: In an earlier paper (Ref. 2), the dielectric constant  $\varepsilon$ , as well as the piezoelectric and elastic moduli of cancrinite had been determined at room temperature. In the present paper, the authors determine its behavior between +20°C and -140°C. The temperature was measured with an accuracy of 0.2°C, the dielectric, piezoelectric, and elastic doefficients with an accuracy of 4, 9, and 3%, respectively. The same samples were used, that accuracy of 4, 9, and 3%, respectively. The same samples were used, that deviations which are explained by the aging in one year. Three different deviations which are explained by the aging in one year. Three different sections were examined (Figs. 2, 3, and 4). At low temperatures, anomalies occur in  $\varepsilon$  and the piezoelectric moduli; the precise position is dependent on the orientation of the cut. The anomalous dielectric behavior of cancrinite can be explained by the structure (Fig. 1): According to

Card 1/2

Investigation of the Temperature Dependence S/181/60/002/04/25/034 of Electric and Elastic Parameters of B002/B063 Cancrinite

V. A. Ioffe and I. S. Yanchevskaya, this anomaly corresponds to a resonance absorption at 180 kilocycles; it is possibly the consequence of an electron transition in the aluminum oxygen tetrahedron from one oxygen atom to another. The piezoelectric anomalies are apparently related to the dielectric ones. These conclusions are only provisional, an accurate investigation requires a better structural determination and an investigation on synthetic material. There are 4 figures and 6 references; 5 Soviet and 1 French.

ASSOCIATION: MGU, fisicheskiy fakul'tet

(Moscow State University, Department of Physics)

SUBMITTED: May 22, 1959

Card 2/2

9.5110 (ako 10.55, 1072) CURDO 1043, 1137, 1273

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5.4800

**\$/120/61/000/001/057/062** 

E194/E184

AUTHORS:

Koptsik, V.A., Strukov, B.A., and Yermakova, L.A.

TITLE:

A Precision Laboratory Cryostat for Investigating the

Electrical and Elastic Properties of Crystals

~ 1995 (4 P. S.) (2 P. S.) (2 P. S.) (3 P. S.) (3 P. S.) (4 P. S.) (3 P. S.) (4 P.

PERIODICAL: Pribory i tekhnika eksperimenta, 1961,No.1,pp.184-188

Progress in the development of laboratory cryostats is briefly reviewed. A circuit developed by B.N. Vasil'yev which was a further development of one used by Wilson and Stone (Ref.9) was used in constructing a precision laboratory cryostat for investigating the electrical and elastic properties of crystals in the region of polymorphous phase conversions. The apparatus was required to produce stable temperature points every 0.1-0.2 °C; the stabilisation of the temperature should be within ± 0.005 °C for a time of 30 minutes to one hour; the specimens should be maintained in vacuum or in an atmosphere of dry gas; electrical terminals in the thermostat chamber should be so designed as to ensure the complete absence of temperature gradients. The equipment consists of a cryostat, a temperature stabilising circuit, a vacuum system and a potentiometer circuit:for Card 1/7

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#### S/120/61/000/001/057/062 E194/E184

A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

temperature measurement. The thermostat chamber of the cryostat consists of a copper block (9 in Fig. 1), 180 mm high and 45 mm in diameter. In the cylinder are drilled two cylindrical ducts over three quarters of its length. One duct is used for thermocouples and the other for ampoules with specimens. The outer surface of the cylinder is threaded with a four start thread; two of the grooves contain nichrome wire heaters and the other two platinum The heater resistance is 1 kilohm and resistance thermometers. the thermometer resistance is 300 ohms. Under conditions of automatic control the surface of the copper block is maintained at a constant temperature. Because of the good thermal conductivity of the copper, after an interval of 10-15 minutes the same temperature is established in the volume for the test specimen. The copper block 9 covered with an aluminium screen 10 is placed in a cylindrical glass vessel with double walls. The inner space is connected to a vacuum flask containing liquid nitrogen. The temperature sensitive element is the platinum resistance Card 2/7

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810006-8"

20714

#### S/120/61/000/001/057/062 E194/E184

A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

thermometer would on the copper block and connected in a balanced bridge circuit, the other arms of which are manganese resistances and an inductionless resistance box. When the resistance of the platinum thermometer alters, it alters the phase of the output signal from the bridge and the function of the rest of the circuit is to apply the necessary (amount of heat to the heater to maintain the resistance of the platinum thermometer equal to that of the resistance box. A schematic diagram of the control system is given in Fig. 2 and the method of operation is explained. vacuum system consists of two main parts, one of which is used to evacuate the inner cylinder of the cryostat and the other to pump from the glass ampoule with specimen holder. The system includes a rotary vacuum pump, an oil vapour trap and appropriate valves and The required temperature is obtained pressure measuring devices. and maintained as follows. The copper block with theampoule is placed in the inner vacuum flask of the cryostat. Liquid nitrogen is poured into the outer flask in which the level of nitrogen is Card 3/7

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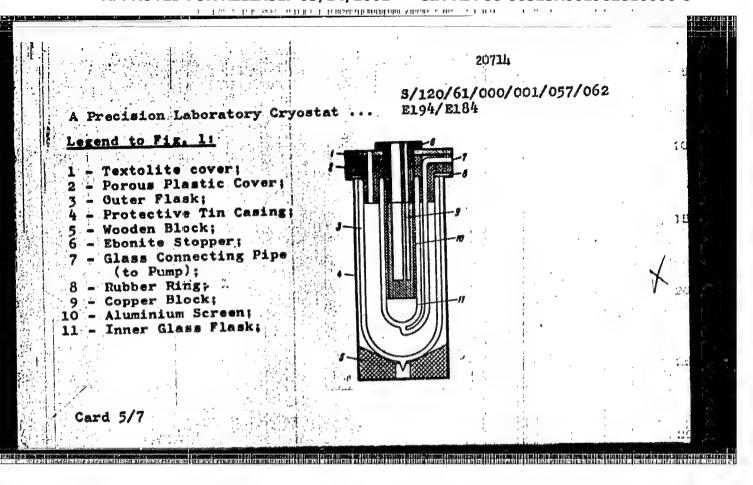
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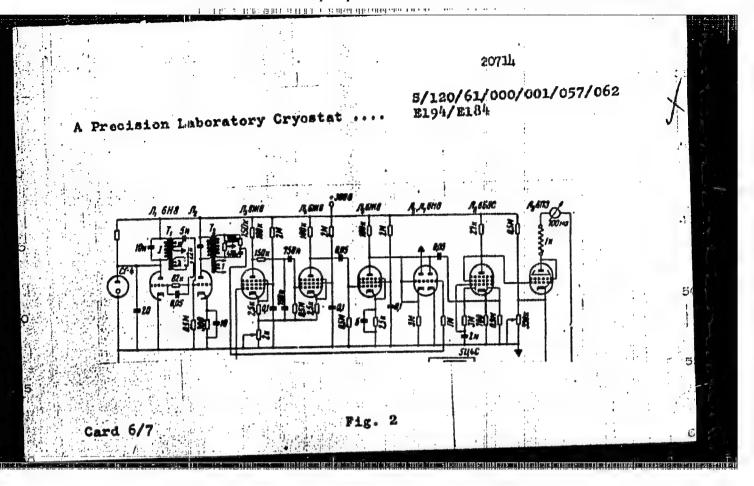
A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

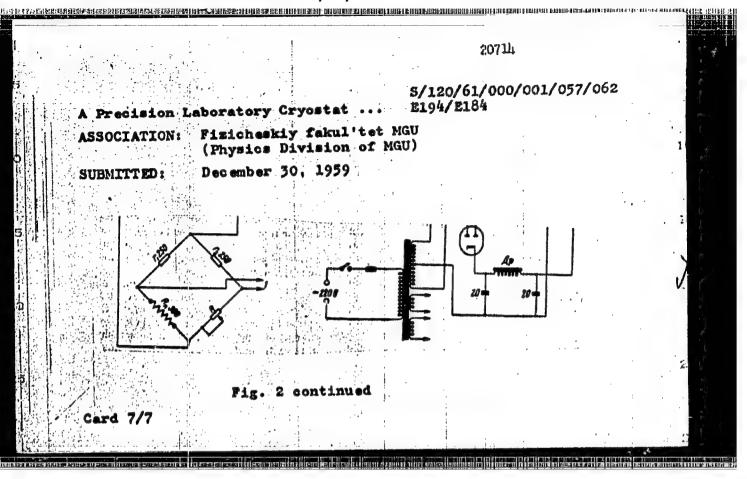
automatically maintained. Cooling commences at a rate of about 0.5 OC/min. When within 3 to 40 of the temperature required to stabilise, the inner vacuum flask is evacuated until the pressure in it reaches 10-3 mm Hg, then the rate of cooling rapidly diminishes. The bridge is then balanced by means of the resistance blocks. The automatic temperature control circuit is then connected and any further reduction in temperature takes place in steps controlled by the resistance blocks. The accuracy of stabilisation was checked by measuring the e.m.f. of a triple copper constantan thermocouple with a sensitivity of 0.1 mV/oc During 60 minutes the temperature changed by less than 0.005 oc. The cryostat has been working for two years and temperature characteristics of a number of crystals have been obtained. Gratitude is expressed to B.N. Vasil'yev for useful suggestions and to A.F. Solov'yev for help in setting up the circuit. There are 3 figures and 13 references: 5 Soviet and 8 English. Card 4/7

# "APPROVED FOR RELEASE: 03/14/2001

#### CIA-RDP86-00513R001962810006-8







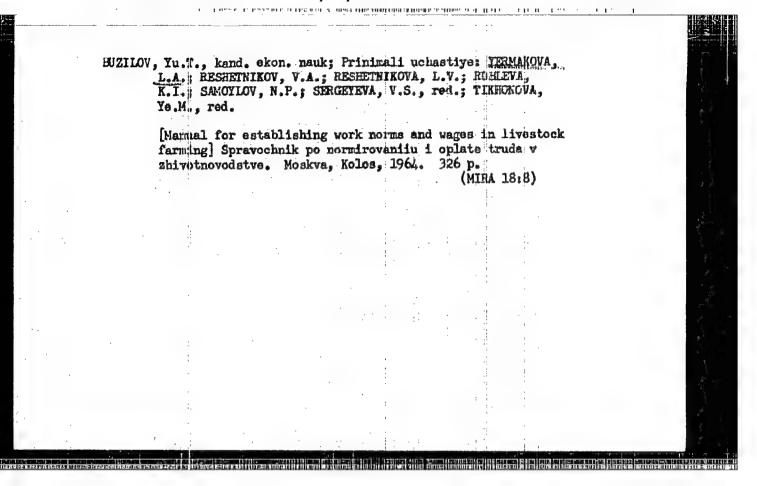
KOPTSIK, V.A.; STRUKOV, B.A.; YERMAKOVA, L.A.

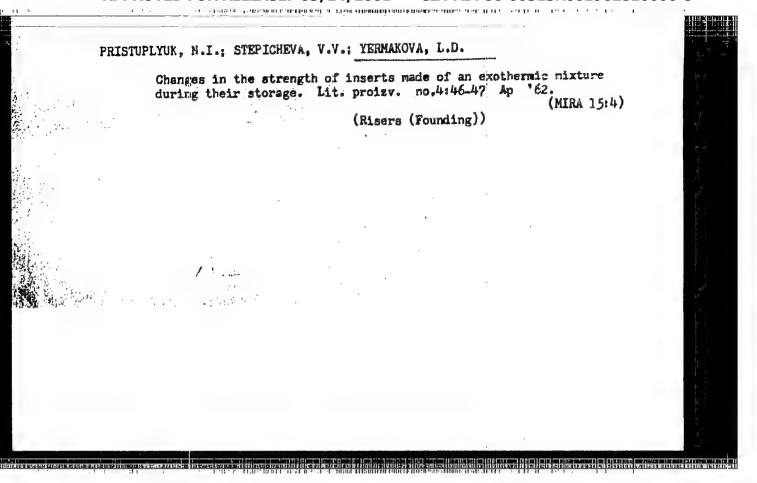
Precision cryostat for studying electric and elastic properties of crystals in laboratories. Prib. i tekh. eksp. 6 no.1:184-188

Ja-F '61. (MIRA 14:9)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta.

(Cryostat)





CHERNYSHEV, M.P.; ROZHKOV, L.P.; SHUL'GINA, Ye.F.; IGNATOVICH, A.F.;
LABUNSKAYA, L.S.; FOMINA, T.V.; CHERNYAKOVA, A.P.; SHPAKOVA,
L.N.; TARASOVA, M.K.; ANFILATOVA, A.I.; SLAVIN, L.B.;
BARYSHEVSKAYA, G.I.; DERIGLAZOVA, N.V.; MATUSHEVSKIY, G.V.;
AL'TMAN, E.N.; KROPACHEV, L.N.; CHEREDILOV, B.F.; POTAPOV,
A.T.; DUDCHIK, M.K.; REGENTOVSKIY, V.S.; YERMAKOVA, L.F.;
SEMENDVA, Ye.A.; KULIKOVSKIY, I.I.; KIRYUKHIN, V.G.; AKSENOV,
A.A., red.; NEDOSHIVINA, T.G., red.; SERGEYEV, A.N., tekhn.
red.; BRAYNINA, M.I., tekhn. red.

[Hydrometeorological handbook of the Sea of Asov] Gidrometeorologicheskii spravochnik Azovskogo moria. Pod red. A.A.Aksenova. Leningrad, Gidrometeoizdat, 1962. 855 p. (MIRA 16:7)

1. Gidrometeorologicheskaya observatoriya Chernogo i Azovskogo morey,

(Azov. Sea of--Hydrometeorology)

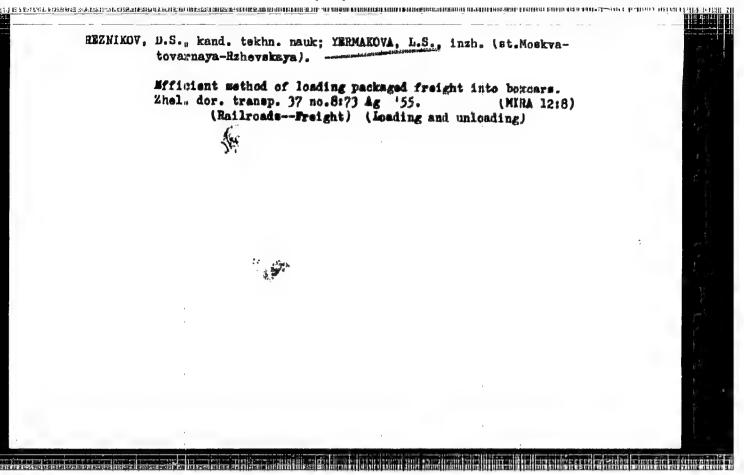
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YERMAKOVA, L.P.

- 1. TYUTYUNNIKOV, B. N., PROF., ERMAKOVA. L. P.
- 2. USSR (600)
- 4. Cleaning Compounds
- 7. Device for determining the detergent action of solutions of cleaning agents. Masl, zhir. prom. 17. no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.



SHOSTAKOVSKIY, M.P.; SOKOLOV, B.A.; YERMAKOVA, L.T.

Synthesis of p-chlorophenyltrichlorogermans. Zhur.ob.khim. 32 no.5:1714 My \*62. (MIRA 15:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Germans)

S/079/62/032/005/009/009 D204/D307

AUTHORS: . Shostakovskiy, M.F., Sokolov, B.A., and Yermakova, L.T.

TITLE: Synthesis of p-chlorophenyl trichlorogermanium (I)

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 5, 1962, 1714

TEXT: The authors carried out, for the first time, a high temperature condensation of HGeCl<sub>3</sub> with p-dichlorobenzene. The mixture, in the ratio 1:1, was passed through a quartz tube 900 mm long and 22 mm in diameter, at 550°C. The condensate, I, was collected in a trap cooled with dry ice, in 11.5 % yield. B.p. 105 - 107°C/5 mmHg; n<sup>20</sup> 2.5738; d<sup>20</sup> 1.6467. Found Cl 47.21 %; calculated Cl 48.81 %. Increasing the HGeCl<sub>3</sub>: p-Cl-C<sub>6</sub>H<sub>4</sub>-Cl ratio to 2:1 raised the yield to 16 %. Only traces of PhGeCl<sub>3</sub> were obtained when PhCl was substituted in place of ClC<sub>6</sub>H<sub>4</sub>Cl, under the same conditions. PhGeCl<sub>3</sub> prepared by the Grignard reaction had a b.p. of 80°C/6 mmHg, n<sup>20</sup> Card 1/2

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Synthesis of p-chlorophenyl ...

8/079/62/032/005/009/009 D204/D307

1.6641. [Abstractor's note: Essentially complete trans-

lation].

ASSOCIATION: Irkutskiy institut organicheskiy khimii sibirskogo ot-deleniya Akademii nauk SSSR (Irkutsk Institute of Orga-nic Chemistry, Siberian Branch of the Academy of Scien-

ces, USSR)

SUBMITTED:

October 14, 1961

Card 2/2

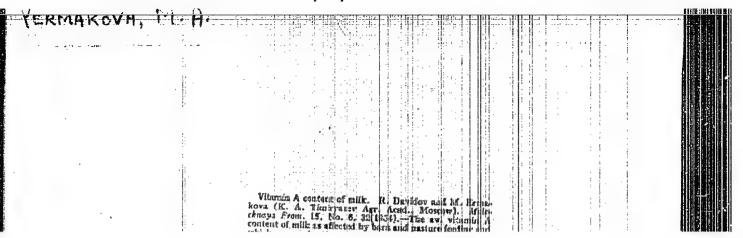
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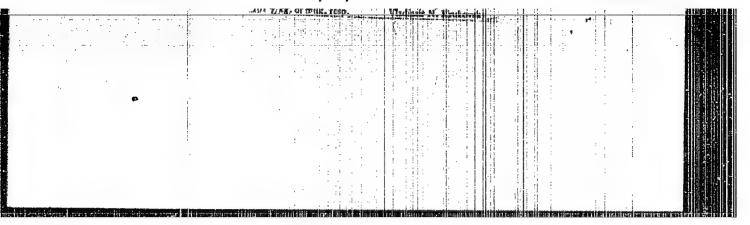
AUTHOR: Shortakovskiy, K. F.; Soloolov, H. A.; Roalanko, A. J., Sulvangarayev,
R. O.; Termslova, I. T.

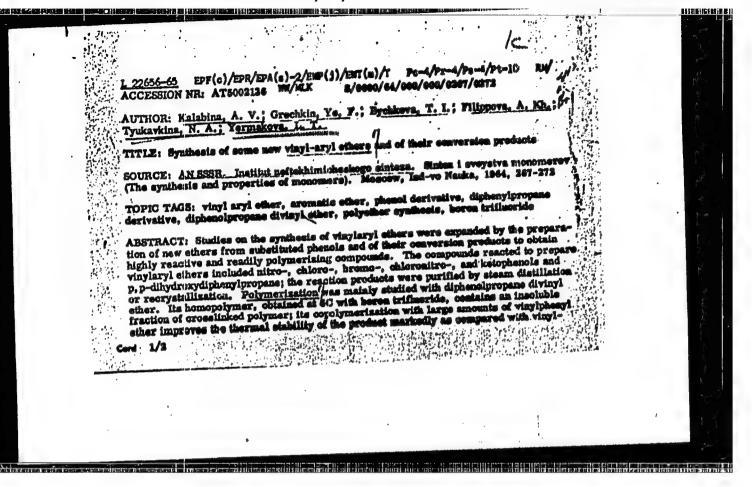
TITLE: High temperature condensation of fluorabelessations.

SOURCE: Zhurmal obsicher khimii, v. 33, no. 5, 1963, 1696
TOPIC TACS: methylphenyldifluorosilane
ABSTRACT: Methyl difluorohydrosilane was ocaldensed with chlorohomauno at 640
degrees to form methylphenyldifluorosilane.
ASSOCIATION: Irkuskiy institut organicheakov khimii Sibamahana atdalani atdalani atdalani atdalani atdalani

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phenyl ether homopolymer. Routes for producing di- and tricklorosthyl-, and B-chloro-	* Mar
and B.B-dichloro- vinyl-aryl others are established. The reactions of vinylaryl others with phosphorus pentachloride produce esters and acid chlorides of B-arylonyvinyl-	P. S.
nhombonic and thiophomic solds. Polymerication of any in the convenience is	
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DAVIDOV, Ruben Bagdasarovich; GUL'KO, Liya Yefimovna; YERMAKOVA, Mariya Alakseyevna; BUKIN, V.N., professor, doktor biologicheskikh nauk, retsenzent; INIKHOV, G.S., professor, doktor khimicheskikh nauk, retsenzent; DEVYATEIN, V.A., kandidat khimicheskikh nauk, spetsredaktor; AKIMOVA, L.D., redaktor; CHEBYSHEVA, Ye.A., tekhnicheskiy redaktor

[Principal vitamins in milk and milk products] Cenovnye vitaminy v moloka i molochnykh produktakh. Moskva, Pishchepromisdat, 1956.
229 p.
(MILK) (VITAMINS)

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YERMAKOVA, M. A. Cand Agr Sci -- (diss) "Change in the Content of england" in Vitamins A and E in Milk and Dairy Products on Feeding Green Conveyer Gatable With Various Gatables of Verdure." Mos, 1957. 16 pp 20 cm. (Mos Order of Lenin Agricultural Academy im K. A. Timiryazev), 110 copies (KL, 25-57, 115-116)

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98 -

USSR / Farm Animals. Cattle:

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Ref Zhur - Biologiya, No 2, 1959, No. 7321 Abs Jour

Author Yermakova, M. A.

Inst Moscow Academy of Agriculture imeni K. A.

Timiryazev

Title The Vitamin Composition of Milk and of Milk

Products when a Green Conveyer is Used

: Dokl. Mosk. s.-kh. akad. im. K. A. Timirya-zeva, 1957, vyp. 30, ch. 2, 210-215 Orig Pub

Abstract : It is pointed out that when cows are changed to rations with green feeds, the A-vitamin activity of the milk and of milk products

increases 3-6 times as compared to the winter period. The most intensive A-vitamin activity

of milk and milk products is achieved with

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USSR / Farm Animals. Cattle.

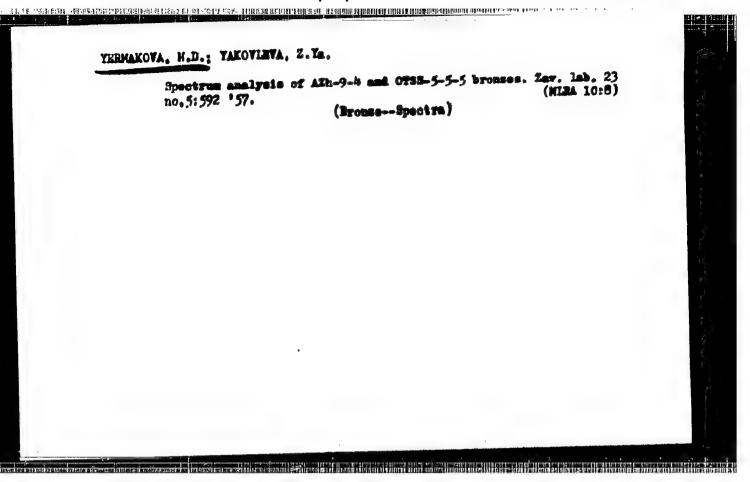
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Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7321

clover and Timothy grass feedings, the most intensive E-vitamin activity of the milk is obtained with Sudan grass feedings.

Card 2/2

28



PONINA, O.A.; SMIRNOV, M.S.; YEMMAKOVA, M.D.; TAKOVLEVA, Z.Ta.; QARVILOV, G.A.

Brief reporte, Zev. lab. 23 me.5:993 '57. (Milla 10:8)
(Spectrum analysis) (Motallungical analysis)

5 (3) AUTHORS:

Postovskiy, I. Ya., Yermakova, Κ. Ι. 50V/79-29-4-63/77

TITLE:

Synthesis of Some Formasanes, Thiohydrazides, and Thiadiazdines With a Carbohydrate Radical (Sintez nekotorykh formazanov,

tiogidrazidov i tiadiazolinov s uglevodnym ostatkom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1333 - 1340

(USSR)

ABSTRACT:

Among the physiologically active heterocyclic compounds those in which the heterocycle is linked to the sugar radical by a straight C-C-bond are very interesting (Refs 1-9). The sulphurous heterocycles are especially interesting among these compounds. Therefore syntheses of some heterocycles with a carbohydrate radical were carried out here, since the publications give only few data (Refs 10-16). The synthesis of some 1,3,4-thiadiazolines which contain in position 5 a carbohydrate radical is described. They were obtained by the reaction of the hydrazides of thialdonic acids (I) which contain a galactose and arabinose radical with carbonyl compounds according to scheme 1. Formaldehyde, acetone, benzaldehyde, o-methoxybenzaldehyde and furfurol were used an carbonyl compounds for the

Card 1/3

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Synthesis of Some Formasanes, Thiohydrazides, and Thiadiazolines With a Carbohydrate Radical

SOV/79-29-4-63/77

condensation. Thiohydrazides (I) necessary for the synthesis of the thiadiazolines (II) were reduced with Hos according to the method of G. Zemplen (Ref 17) by reduction of the formacyl compounds (III) where R' i represents a carbohydrate radical (Scheme 2). The formosanes can take part in the reactions in two tautomeric forms (III a) and (III b). If R differs from R', 4 products are bound to be synthesized according to the scheme, i. e. 2 thiohydrazides and 2 hydrazines. In the case of R=R', however, only one thiohydrazide and one hydrazine are bound to result. In the case of the reduction of the compounds (III), (V), (VII), and (IX) (Table 1) where R=R' the hydratides of the thiogalactonic- and thioarabonic acid (X), (XI), (XII), and (XIII) (Table 2) were obtained. In the case of the reduction of (IV), (VI), and (VIII), where R n R' are different, unexpectedly only one thiohydrazide was obtained with a not substituted aryl, and a substituted aryl hydrazine. Thus the equilibrium shifted in the reaction towards the direction of the "form" a which is interesting with respect to the new data on the tautomerism of the asymnetrical formazanes in dependence on the nature of the radicals

Card 2/3

Synthesis of Some Formasanes, Thiohydrazides, and SOV/79-29-4-63/77 Thiadiazolines With a Carbohydrate Radical

> R and R. (Ref 18). The thiohydrazides react smoothly with aldehydes in the hydrochloric acid containing alcohol medium under formation of 1,3,4, thiadiazolines (Table 3) which crystallite easily and are soluble in alcohol, dioxane, and acetone dirficultly soluble in benzene and chloroform, insoluble in water. The thichydrazides and thiadiazolines have a slight antitubercular activity. There are 3 tables and 21 references, 3 of which are Soviet.

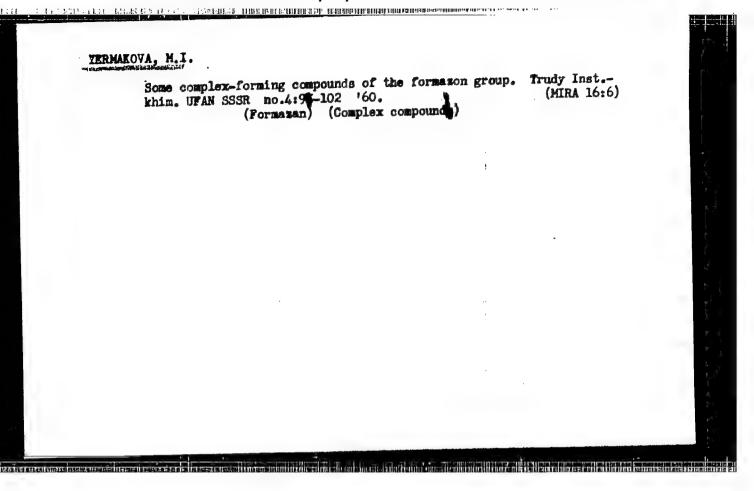
ASSOCIATION: Ural'skiy filial Akademii nauk SSSR (Ural Branch of the Academy

of Sciences. USSR)

SUBMITTED:

March 20, 1958

Card 3/3



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SOV/79-30-3-23/69

AUTHORS:

Yermakova, M. Irya Kaylov, Ye. I., Postovskiy, I. Ya.

TITLE:

Structure of Formazans. Study of the Magnetic

Susceptibility of Complex Compounds of Copper, Cobalt,

and Nickel With Formazans

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,

pp 849-854 (USSR)

ABSTRACT:

Complexes of Cu, Co, and Ni were prepared with the following formazans: 1,3,5-triphenylformazan,

1-p-toly1-3,5-diphenylformazan, 1-p-chlorophenyl-3,5-diphenylformazan, and 1-o-carboxyphenyl-3,5-diphenylformazan. The physical constants of the

prepared complexes are shown in Table 1.

Card 1/8

Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 **SOV/**79-30-3-23/69

Table 1. Key: (1) Complex compounds of formazans; (I) (Bis-1,3,5-triphenylformazyl)-copper; (II) 
 Bis-(1-p-toly1-3,5-diphenylformazyl) 
 -copper; (IV) 
 1-o-Carboxyphenyl-3,5-diphenylformazyl 
 -copper; (IV) 
 1-o-Carboxyphenyl-3,5-diphenylformazyl-copper; (V) 
 (Bis-1,3,5-triphenylformazyl) 
 -cobalt; (VI) 
 [Bis-(1-p-toly1-3,5-diphenylformazyl)] 
 -cobalt; (VIII) 
 (Bis-1,3,5-triphenylformazyl) 
 -cobalt; (VIII) 
 (Bis-1,3,5-triphenylformazyl) 
 -nickel; (XI) 
 [Bis-(1-p-toly1-3,5-diphenylformazyl)] 
 -nickel; (XI) 
 (1-o-Carboxyphenyl-3,5-diphenylformazyl) 
 nickel; (XI) 
 (1-o-Carboxyphenyl-3,5-diphenylformazyl) 
 nickel; (2) 
 Empirical formula; (3) 
 Mp; (4) 
 Found; (5) 
 Interature; (6) 
 Nitrogen content (%); (7) 
 Found; (8) 
 Calculated; (9) 
 Metal content (%); (10) 
 Found; (11) 
 Calculated.

Card 2/8

Table 1  78269 SOV/79-30-3-23/69  Table 1  78269 SOV/79-30-3-23/69  Table 1  78269 SOV/79-30-3-23/69  Table 1  78269 SOV/79-30-3-23/69  78269 SOV/79-30-3-23/69	Table 1  2									
Table 1  2	Table 1  2 3 6 9  4 5 7. $P   I_0   I_1   I_1   I_2   I_3   I_4   I_4   I_5   I_5  $					7826	59	SOV	/79-	-30-3-23/69
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HI C <sub>10</sub> H <sub>34</sub> N <sub>6</sub> Cn 158—159 156 16.01 16.24 9.35 9.20 HI C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Cu 166—168 — 15.38 15.33 8.50 8.69	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			d	4	5	7.	8	10	11
HI C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Cu 166—168 — 15.38 15.33 8.50 8.69	III $C_{38}H_{28}N_{8}CI_{2}Cu$ 168—168 — 15.38 15.33 8.54) 8.69 IV $C_{20}H_{14}O_{2}N_{4}Cu$ 231 decomp. 228 decomp. 13.60 13.80 15.47 15.65		I	CanHanN <sub>B</sub> Cu	159 - 1609	158°	17.15	16,92	9.21	9.59
	1V C <sub>20</sub> II <sub>14</sub> O <sub>2</sub> N <sub>4</sub> Cu 231 228 30 13.60 15.47 15.65		11	C <sub>10</sub> H <sub>34</sub> N <sub>8</sub> Cn	158—159	156	16,01	16.24	9.35	9.20
IV C <sub>20</sub> H <sub>14</sub> O <sub>2</sub> N <sub>4</sub> Cu 231 228 13.60 15.47 15.65 decomρ.			ını	C <sub>08</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Cu	166—168		15.38	15,33	8.54)	8.69
	Card 3/8		IA	C <sub>20</sub> H <sub>14</sub> O <sub>2</sub> N <sub>4</sub> Cu	231 decomp	228 dec <i>om β-</i>	19.60	13.80	15.47	15.65

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	ν, ν	C <sub>38</sub> H <sub>30</sub> N <sub>8</sub> Co	227228	228-230	17.28	17,0%	9.11	8.96	
	VI	C40H34N8C0	236—237	238	16,37	10,35	8.61	8.59	
	vii	C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Gl <sub>9</sub> Co	184—185	. 100%	15.19	15.44	8.03	8.11	
	VIII	C <sub>38</sub> H <sub>30</sub> N <sub>8</sub> Ni	decomp 306	300 dusamp.	17.50	17.05	8.77	8.93	
	IX	C <sub>to</sub> ll <sub>34</sub> N <sub>3</sub> Ni :	293 decomp	287 dec <i>omp</i>	16.42	18.35	8.42	8.56	same of the state
	x	C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Ni	288 decemp.	***	15.12	15.44	7.85	8,0M	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	ıx	C <sub>20</sub> H <sub>14</sub> O <sub>3</sub> N <sub>4</sub> Ni	275	270	14.37	13,07	14.82	14.64	P
	Table 2 s	shows the compounds	magnet	decomp tic sus	cept	ib1]	Lity	of the	<i>i</i>
Card 4/8		•							₹

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Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 8<mark>0V/</mark>79-30-3-23/69

Table 2. Key: (1) Magnetic susceptibility of complex compounds of formazan with copper, cobalt, and nickel (at the intensity of magnetic field 2260 oersted); (2) Temperature, K; (3) L Effect(in Bor's magnetones). (1) (Bis-1,3,5-triphenylformazyl)-copper; (II) [Bis-(1-p-tolyl-3,5-diphenylformazyl)] -copper; (III) [Bis-(1-p-tolyl-3,5-diphenyl-3,5-diphenyl-formazyl)] -copper; (IV) 1-o-Carboxyphenyl-3,5-diphenyl-formazyl)-cobalt; (VI) [Bis-(1-p-tolyl-3,5-diphenyl-fromazyl)-cobalt; (VII) [Bis-(1-p-tolyl-3,5-diphenyl-fromazyl)] -cobalt; (VIII) [Bis-(1-p-tolyl-3,5-diphenylformazyl)] -nickel; (IX) [Bis-(1-p-tolyl-3,5-diphenylformazyl)] -nickel; (XI) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)] -nickel; (XI) (1-o-Carboxy-3,5-diphenylformazyl) -nickel.

Card 5/8

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001962810006-8"

Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 SOV/79-30-3-23/69

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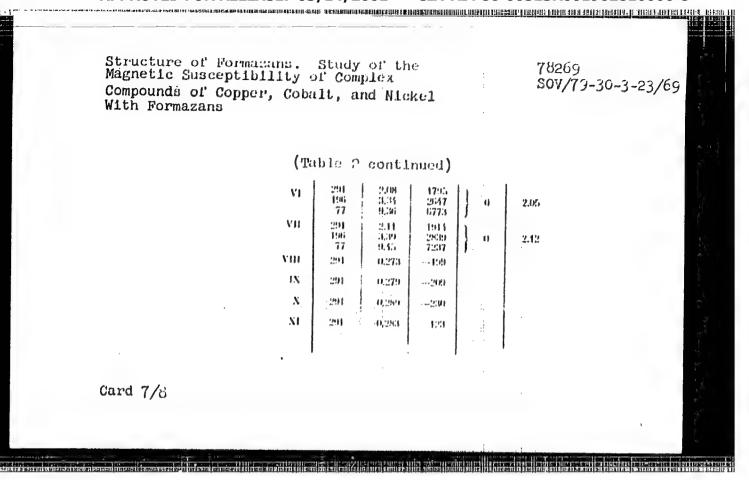
१९ १४१६८ - ११ १८६६ १८७५ मेहर हे पुरस्क कि सिंह स्ट्रीस कर का अवस्थित स्थापना स्थापना स्थापना स्थापना स्थापना अ

,	2	*g • 10*	* <sub>M</sub> - 10*	4º K	3
I	293 196 77	1.55 2.79 8.00	1381 2197 5052	} +5	1.81
11	291 196 77	1.62 2.80 9.01	1494 2303 5900	}+4	1,87
111	293 196 77	2.14 3.35 8.56	1900 2822 6637	}10	2.08
17	291 196 77	3.37 5.22 14.60	1557 2303 6116	} +4	1.90
<b>v</b>	291 196 77	1.86 3.07 8.58	1572 2365 5963	} 0	1.03

Card 6/8

### "APPROVED FOR RELEASE: 03/14/2001 CIA-RI

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Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 **SOV/**79-30-3-23/69

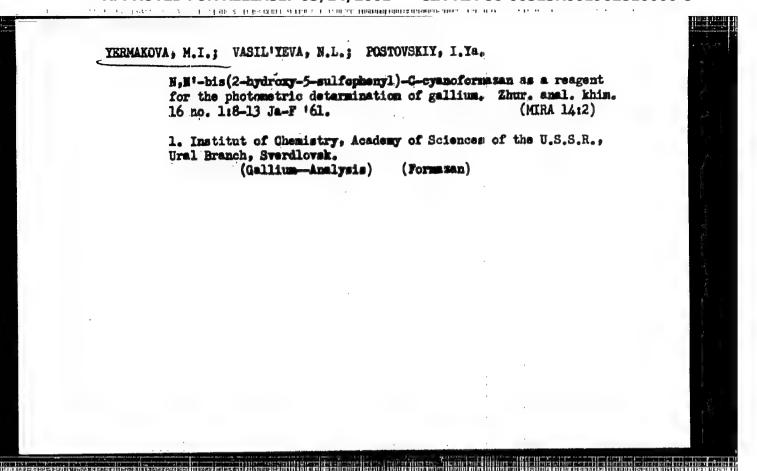
The measurements of the magnetic susceptibility of the obtained complexes indicate the planar position of the formazyl group structure. There are 2 tables; 2 figures; and 13 references; 3 U.K., 3 German, 2 U.S., 2 Austrian, 1 French, 2 Soviet. The 5 U.S. and U.K. references are: Nineham, A. W., Chem. Revs., 355 (1955); Hunter L., Roberts, C. B., J. Chem. Soc., 822 (1941); Figgis, B. N., Nyholm, R. S., J. Chem. Soc., 12 (1954); Kondo M., Kubo M., J. Phys. Chem., 62, 468 (1958); Bhatnagar, S. S., Khana, M. I., Nevgi, M. B., Philosoph. Mag., 25, 234 (1938).

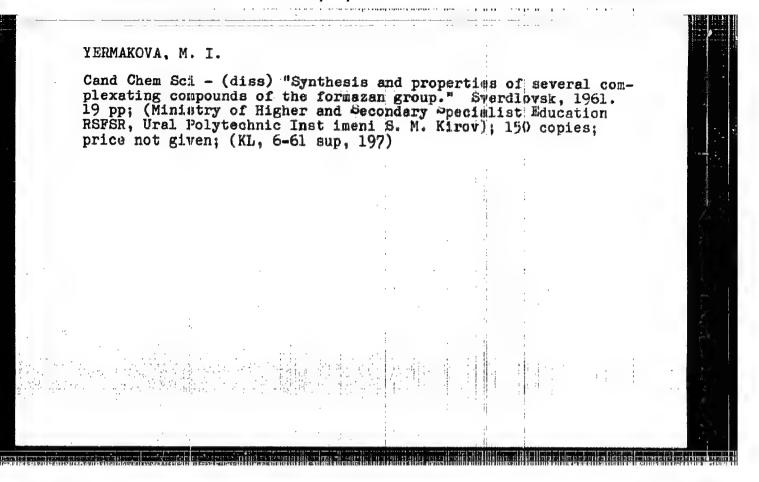
ASSOCIATION:

Institute of Chemistry of the Ural Branch of the Academy of Sciences of the USSR (Institut khimii Ural'skogo filiala Akademii nauk SSSR)

SUBMITTED: Card 8/8

March 18, 1959





VASIL'YEVA, N.L.; YERMAKOVA, M.L.; POSTOVSKIY, I.Ya.

Determination of gallium with N.M.-di(2-hydroxy-5-sulfophismyl)
C-cyanoformasan. Zhur. VKHO 5 no.1:110 '60. (MIRA 14:4)

1. Institut khimii Ural'skogo filiala Akademii nauk SSSR.

(Sallium—inalysis)

S/075/63/018/001/003/010 E071/E452

AUTHORS:

Vasil'yeva, N.L., Yermakova, M.I.

TITLE:

Use of formazans in analytical chemistry

Communication 2. The determination of gallium with N,N'-di(2-hydroxyphenyl)-C-cyanformazan

PERIODICAL: Zhurnal analiticheskoy khimii, v.18, no.1, 1963, 43-51

A compound N,N'-di(2-hydroxyphenyl)-C-cyanformazan was synthesized and its interaction with gallium studied. on conditions, the formazan forms two blue compounds with absorption maxima at 634 and 630 mg. The compounds have the nature of internal complexes - nonelectrolytes. The range of existence of one complex is pH 2-5 and that of the other is On the basis of optical properties of solutions, pH above 5. chemical composition, X-ray and dehydration properties of crystalline precipitates as well as equilibria studies in solutions, the probable atructure of the compounds is proposed. Depending on the pH of the medium gallium coordinates either with the ionic (pH > 5) or undissociated form of formazan (pH < 5) on changes of pH the compounds undergo a reversible transformation. Card 1/2

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S/075/63/018/001/003/010 E071/E452

Use of formazans ...

The molar ratio of gallium to formazan is 1:1. N,N'-di(2-hydroxyphenyl)-C-cyanformazan is recommended for the photometric determination of gallium in the presence of aluminium, zinc, lead, cadmium, manganese and small quantities of indium, germanium, copper and nickel. The two last elements are separated from gallium by extraction with benzene. The sensitivity of the reaction is  $0.04~\mu g/ml$  of gallium. Z.M.Podkina participated in the work. There are 6 figures and 1 table.

ASSOCIATION: Institut khimii Ural'skogo filiala AN SSSR,

Sverdlovsk (Institute of Chemistry, Ural Branch

AS USSR, Sverdlovsk)

SUBMITTED: April 7, 1962

Card 2/2

AID Nr. 995-7 21 June

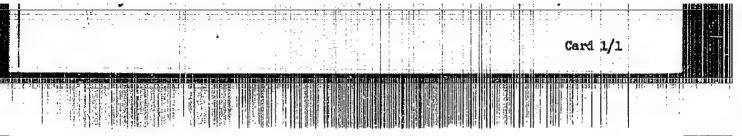
A FORMAZAN AS A NEW REAGENT FOR THE DETERMINATION OF Zr (USSR)

Vasil'yeva, N. L., and M. I. Yermakova. Zhurnal analitich skoy khimii, v. 18, no. 4. Apr 1963, 545-547. S/075/63/018/0-4/014/015

A, method is proposed which uses. N. N-bis (2-hydroxy-5-sulfophenyl) - C-quana-

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001962810006-8"



YERMAKOVA, M.I.; POSTOVSKIY, I.Ya.

Chemistry of formazans. Part 7: Reaction with diazonim salts and the aminomethylation of 1,5-diphenylformazan. Zhur. ob. khim. 34 no.9:2855-2859 S'64.

(MIRA 17:11)

1. Institut khimii Ural'skogo filiala AN SSSR.

र र र जेरल हे अर वेर प्रचानक का विकास सम्भाव का विकास समिति समिति समिति स्था सिवास का समिति । इस स्थान समिति व - इस र जेरल हे अर विकास का समिति समिति समिति समिति समिति समिति समिति समिति । इस समिति समिति । इस समिति समिति स L 10456-67 EVT(1)/EEC(k)-2/EWP(k) IJP(c) ACC NR: AP6023877 SOURCE CODE: UR/0109/66/011/007/1321/1322 AUTHOR: Golant, M. B.; Savel'yev, V. S.; Korotkova, Z. S.; Alekseyenko, Z. T.; Yermakova, M. I. ORG: none TITLE: Laser and Un-tube bands overlap SOURCE: Radiotekhnika i elektronika, v. 11, no. 7, 1966, 1321,-1322 TOPIC TAGS: laser, backward wave tube ABSTRACT: In 1964, Yeu Ta reported the development of a BW-tube operating at a wavelength of 0.39 mm (Traveaux du 5 congress international, Paris, 14-18 Sept, 1964). In the same year H. A. Gebbie et al. reported the development of a laser operating. at 0.337 mm (Nature, v. 202, 4933, 685, 1964). In 1965, Soviet researchers designed a EW-tube operating at 0.296 mm. Thus, the laser band and EW-tube band have become overlapped. "The authors wish to thank, N. A. Irisova and Ye. A. Vinogradov for their help in organizing measurements." Orig. art. has: no figure, formula or table. SUB CODE:20 / SUBM DATE: 21Feb66/ ORIG REF: 002 / OTH REF: 002 UDC: 621.385.6.029.67+621.370.325

AUTHOR: Andrismov, K. A.; Yermakova, M. N., Bablina, G. P., 44, 55

ORG: Institute of Macromolecular Compounds, AN SSSR (Institut vysokomolekulyarnykh soyedineniy AN SBSR)

TITLE: Condensation of borondimethylsiloxana oligomers with tributoxyaluminum

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1771-1775

TOPIC TAGS: organoboron compound, organoaluminum compound, oligomer, condensation reaction, high polymer holymer physical chemistry, nolymer structure, plastic deformation, elongation, sloxane

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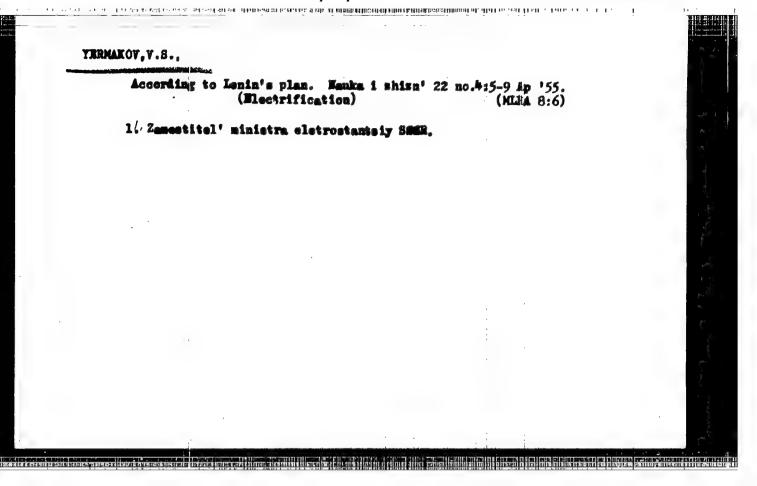
YERMAKOV, V.S.; SPIRIN, S.A.; CHIRHOV, D.G.; UGORETS, I.I.; LAVRIENENKO, K.D.;
SMIRHOV, G.V.; CHUPRAKOV, H.M.; NKHITARYAN, S.G.; ASHOLOV, G.L.;
KOTILEVIKIY, A.M.; MOLOKANOV, S.I.; SYROMYATNIKOV, I.A.; PAYERNAB, S.Ts.;
SOKOLOV, B.M.; KOMISSAROV, Yu.P.; MALYUTIN, I.P.; POBEGAYLO, K.M.;
MORYAKOV, A.V.; HELANED, H.F.; KUDBLASHVILI, P.G.; GARKAVAYA, L.A.;
LIVSHITIS, E.M.; HERRASOV, A.M.

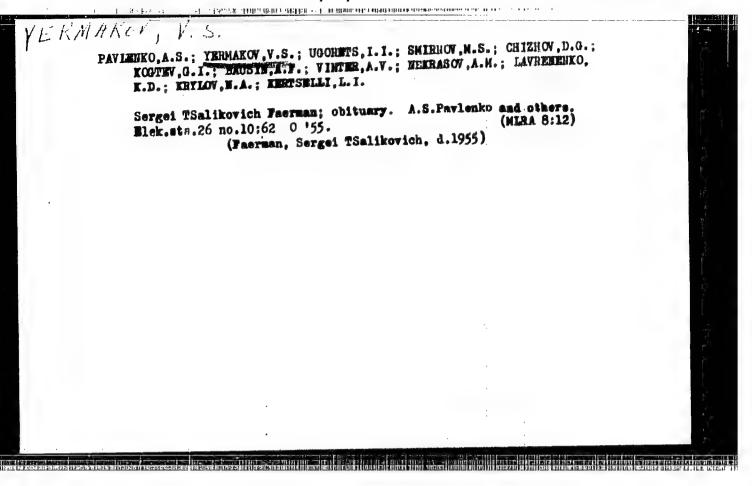
Moisei Vul'fovich Safro; obituary. Blek.sta. 24 no.11:60 N '53. (MIRA 6:11)

(Safro, Moisei Vul'fovich, 7-1953)

TERMAKOV, V.S.; KLOCHKOV, I.M.; CHIZHOV, D.G.; KOGTEV, G.I.; KAVRENEE—
TO, K.D.; MERIASOV, A.M.; SPIRIE, S.A.; VESELOV, M.D.; KOTLLEVSKIY, D.G.;
SMIREOV, G.V.; MARIKOV, A.M.; MAKRIMOV, A.A.; IVANOV, M.I.; MINOV, A.P.;
CHUPRAKOV, M.M.; AVTOROMOV, B.V.; SYRONTATBIKOV, I.A.; NOLOGAROV, S.I.;
FAREDAN, S.TS.; GORSHKOV, A.S.; GOL'IMENERO, P.S.; SOKOLOV, B.M.; MAKUSHKIN, Ta.G.; MKHITARYAN, S.G.; RASSADBIKOV, Ye.I.; GRUDINSKIY, P.G.;
FONICHEV, G.I.; SHCHERBININ, B.V.; KAYTSHV, V.I.; KOKOREV, S.V.; KIYUSHIN, M.P.; PESCHANSKIY, V.I.; SAFRAKDENTAN, G.S.; 1 dr...

IUT11 Prokhorovich Komissarov; obituary. Blek.sta. 25 no.5260 My '54.
(Komissarov, IUT11 Prokhorovich, 1910-1954) (MLRA 7:6)





PERULWHIN, M.G.; LOGINOV, F.G.; ZHIMMRIN, D.G.; PAVLENEO, A.S.;

KULEV, I.A.; DONCHEUKO, V.I.; DEGISHEV, A.I.; DMITRITEV, I.I.;

LEGRAKOV, V.S.; SOSNIE, L.A.; PORUSEKI, A.S.; SHIRMOV, N.S.;

TARASV, N.S.; SHIRMOL'SKIY, G.P.; KRYLOV, M.A.; KOOTEV, G.I.;

AGHKASV, D.I.; VESELOV, N.D.; CHIRMOV, D.G.; UCKRITS, I.I.;

BIKIPOROV, F.H.; FLATOROV, N.A.

Vladimir Bikolasvich Sergesv; obituary. Blek. sta. 27 no.3:63 Mr

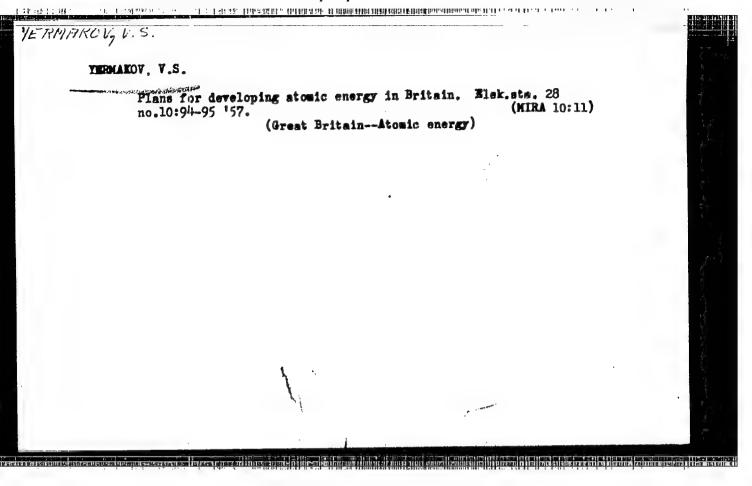
'56.

(Sergesv, Vladimir Bikolasvich, 1903-1956)

MALENKOV, G.M.; PERVUEHIN, M.G.; KUCHERINKO, V.A.; ZHIMERIN, D.G.; LOGINOV, F.G.; PAVIMEKO, A.S.; YERMAKOV, V.S.; VINTER, A.V.; DMITRIYEV, I.I.; UGCRETS, I.I.; EMERTIN, W.V.; VOZNESENSKIY, A.N.; VASILENKO, P.I.; BOROVOY, A.A.; NOSOV, R.P.; MRISTOV, V.S.; EMLYAKOV, A.A.; RUSSO, G.A.; VASILIYEV, A.F.; EMPKIN, V.P.; TERMAN, I.A; ORLOV, G.M.; CHUMACHENKO, W.A.; EMSCHINSKIY, A.A.; YAROSH, V.F.

Pavel Pavlovich Laupman; obituary. Gidr. stroi. 26 no.5:62 My '57. (Laupman, Pavel Pavlovich, 1887-1957) (MLRA 10:6)

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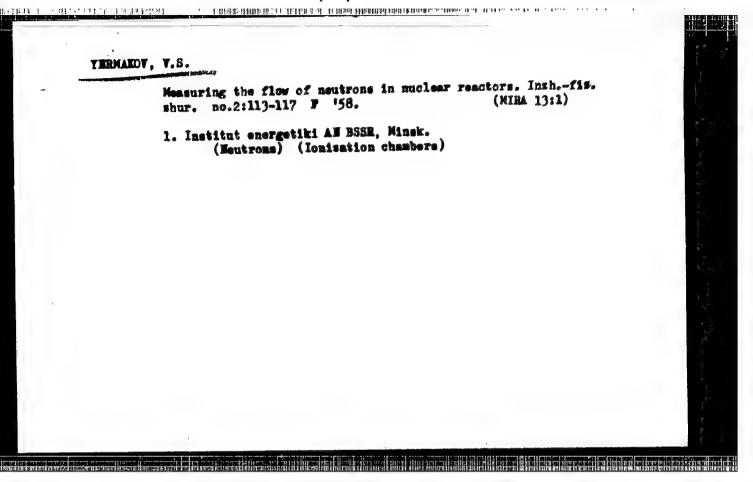
YERMAKOV, V.S., Cand Tech Sci -- (diss) "Study of the processes of heat transfer in heat-producing of elements of a nuclear reactor." Minsk, 1958, 16 pp (Acad Sci BSSR. Department of Phys Math and Fech Sci. Inst of Power Engineering) 100 copies (KL, 29-58, 132)

- 53 -

IVANOV, A.V.; MENAXOV, V.S.

Applying Laguerre polynomials to the solution of telegraphic equations. Insh.-fis.shur. no.1:6-16 Ja \*58. (MIRA 11:7)

1.Institut energetiki AN ESSR, g.Minsk (Electric circuits) (Calculus, Operational)



YERMAKOV, V.

AUTHORS:

Gel'fond, A., Karandeyev, K., 105-58-4-35/37

Chistyakov, N., Shumilovskiy, N., Levin, M., Yermakov, Y., Kobrinskiy, N., and others

STONE | 250 July - 18 CERTAIN SEPTEMBER OF STRANGE | 30 OF SEPTEMBER AND DESIGNATION OF AN ARCHITECTURE OF A SECOND OF A SECON

TITLE:

V. N. Mil'shteyn (Deceased)

PERIODICAL:

Elektrichestvo, 1958, Nr 4, pp. 94-94 (USSR)

ABSTRACT:

Obituary notice. On January 9, 1958 Professor Viktor Naumovich Mil'shteyn, Dr. of Technical Sciences died at the age of 44. After he finished the Moskau Institute for Power Engineering he worked in industry and as pedogogue. In 1938 he became Candidate and in 1945

pedogogue. In 1938 he became Candidate and in 1945
Dr. of Technical Sciences. Since then he was Director
of the Chair for Electric and Automatic Apparatus at
the Moskau Institute for Aviation imeni Ordzhonikidze.
In 1949 he changed over to the Scientific Research
Institutes for Systems at the Committee for Standards,
Measures and Measuring Apparatus. At the same time
he worked as pedogogue at the Penza Institute for
Industry and then at the Moskau Electrotechnical

Card 1/2

Institute for Telecommunications. He wrote many

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V. N. Mil'shteyn (Deceased)

105-58-4-35/37

publications and many inventions were made by him. His scientific work included the field of theoretical electrical engineering and radio engineering as well as the problems on the theory and the calculation of measuring instruments, automation elements and electromagnetic mechanisms. Before his death he had his monography "The Energetic Relations in Electrical Measuring Instruments" printed. There are 1 figure.

AVAILABLE:

Library of Congress

1. Obituary

Card 2/2

YERMAKOU V.S.

AUTHOR: Yermakov, V.S., Engineer

96-1-24/31

TITIE:

Economic Calculations on Feed Water and Steam Piping (Ekonomicheskiy raschet pitatel'nykh i parovykh

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truboprovodov)

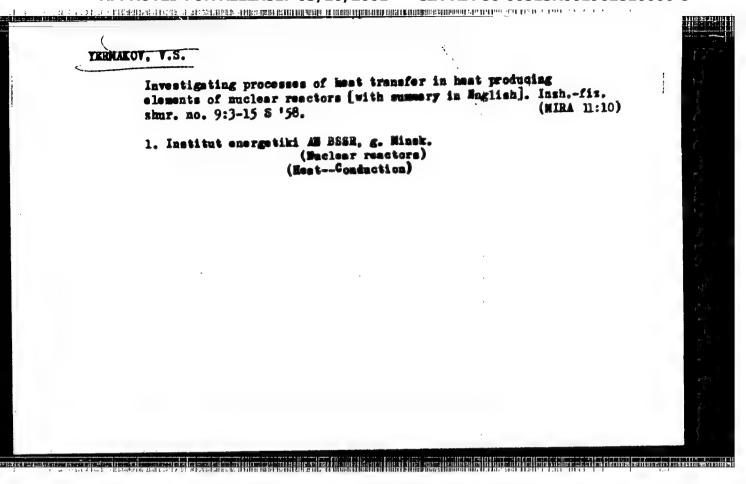
PERIODICAL: Teploenergetika, 1958, Vol.5, No.1, pp. 82 - 83 (USSR).

ABSTRACT: This note gives a brief account of technical and economic considerations in the dimensioning of feed water and steam piping according to British power station design practice. It is taken from the publication "Power Station Auxiliary Plant" by Kennedy and Hutchinson.

There is I non-Slavic reference.

AVAILABLE: Library of Congress.

Card 1/1



VEYEIK, A.I.: MERMAKOV, V.S.; LYKOV, A.V.

Applying the Onsager theory to the study of the diffusion of neutrons in absorbing media of nuclear reactors. Insh.-fis. (MIRA 11:11) simr. no.10:123-129 0 158.

1. Institut energetiki AN BSSR, g. Minak. (Muclear physics) (Muclear reactors)

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SOY/98-58-11-6/15

AUTHORS:

Yermakov, V.S. and Khanin, M.L., Engineers

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TITLE:

The Water Power Resources of the Belorussian SSR (Gidro-

energeticheskiye resursy Belorusskoy SSR)

PERIODICAL:

Gidrotekhnicheskoymstroitel'stvo, 1958, Nr 11, pp 28-34

(user)

ABSTRACT:

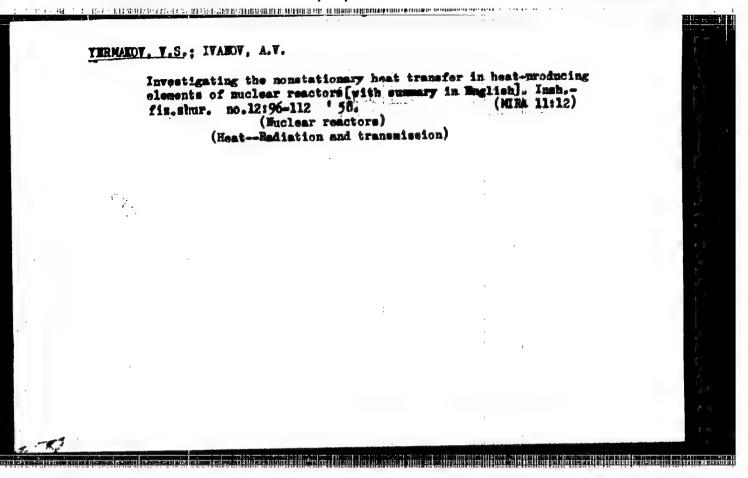
The Belorussian Republic has no hydroelectric power plants on its territory. The needs of industry and population are met by thermoelectric power plants, fuelled mainly with peat. The authors find that the planned construction of hydroelectric power plants will solve the power problems of the republic. The possible locations of these plants on the main rivers are enumerated. There are 2 tables,

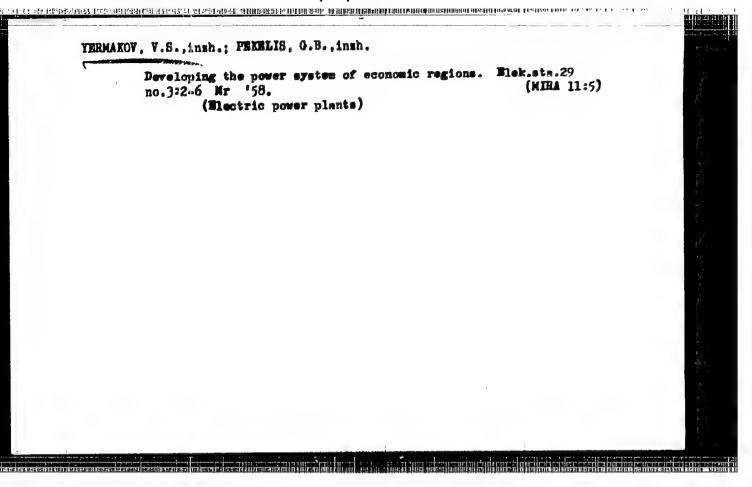
2 charts, 1 profile and 1 graph.

1. Power plants--USSR

Card 1/1

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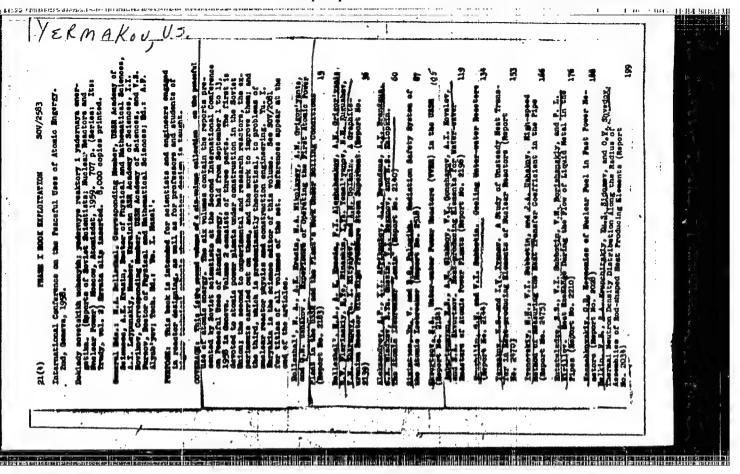


TEMMAKOV, V.S., insh.; Pakalis, G.V., insh.

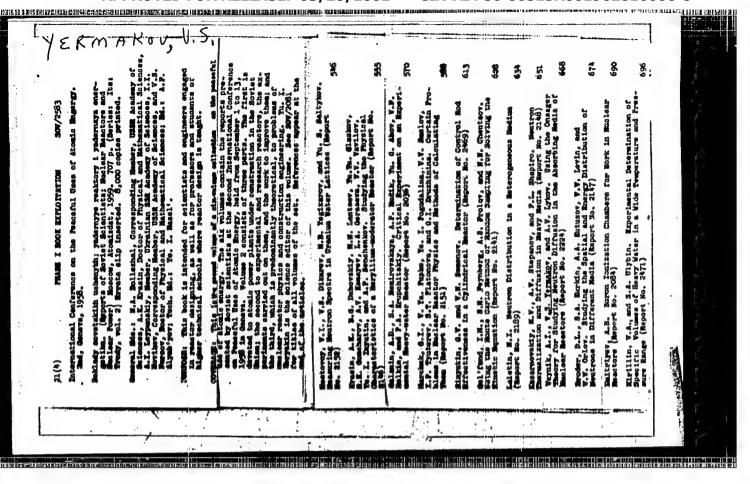
From the day conditions for the development of peat-operated electric stations. Torf. pros. 35 no.5:1-7 '58.

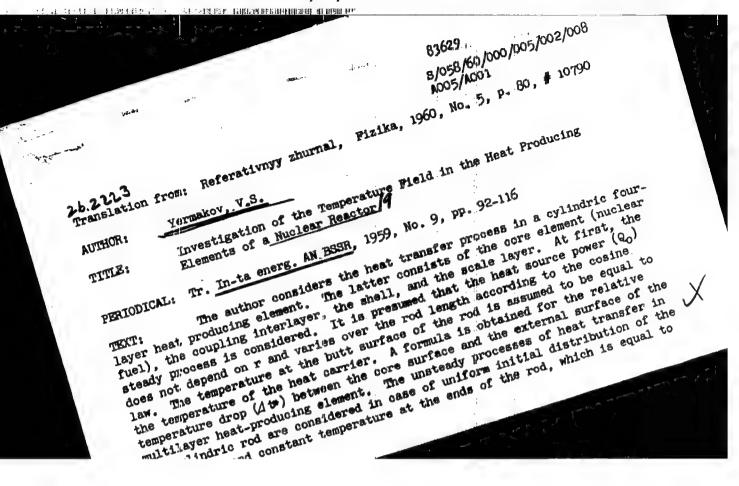
1.Gosplan BSSR.

(Electric power plants)



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### "APPROVED FOR RELEASE: 03/20/2001

#### CIA-RDP86-00513R001962810006-8

83629

8/058/60/000/005/002/008 A005/A001

Investigation of the Temperature Field in the Heat Producing Element of a Nuclear Reactor

the temperature of the heat carrier. A formula is obtained for  $\Delta t^*$  in general form in case of arbitrary functions  $Q(r,z,\mathcal{V})$  and  $q_g(z,\mathcal{V})$  (thermal flux at the lateral surface of the fuel core). The solutions of the problem are considered for specific conditions of heat exchange in the heat producing element of the BBP - (VVR). reactor (uranium rods with d=0.82 cm with steel claddings of 1 mm thickness; scale does not exist). Nomographs are plotted for practical computations of the steady and unsteady heat exchange. The transient conditions of the reactor operation are studied, when  $Q(z,\mathcal{T})$  is an exponential time function. A nomograph is plotted convenient for calculating the heat exchange for the emergency conditions of the reactor operation.

B.A. Levin

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

32429

S/020/61/141/006/014/021 B103/B147

15.9201

11.2211 AUTHORS:

Yermakova, I. I., Dolgoplosk, B. A., Corresponding Member

AS USSR, and Kropacheva, Ye. N.

TITLE:

Cis-trans isomerization of the links of 1,4-polybutadiene

under the effect of nitrogen peroxide

PERIODICAL:

Akademiya nauk SSSR. Doklady, v. 141, no. 6, 1961,

1363 - 1365

TEXT: The isomerizing effect of NO2 and its dimer N2O4, of hexaphenyl ethane, and of three disulfides was studied on 2% benzene solutions of a) cis-1,4-polybutadiene, and b) cis-butene-2 in glass ampullas. The content of 1,2 or trans-1,4 links in the polymer was calculated on the basis of the intensity in the maxima 909 and 967 cm<sup>-1</sup>, respectively, of the infrared spectra (spectra taken by Z. D. Stepanova). The change of the cis-trans forms of the butenes was recorded chromatographically during the process (by A. N. Genkin). It has been found that in case a) the cis-links of the polymer chain are isomerized to trans-links, i. e., the more inten-Card 1/3

32429

\$/020/61/141/006/014/021 B103/B147

Cis-trans isomerization...

sively the higher the  ${\rm NO}_2$  concentration. Thus, 23.5 mole% of  ${\rm NO}_2$  results in a polymer with 60% of trans-links. No isomerization occurred at -50°C owing to the tendency of NO<sub>2</sub> to dimerize below O°C. Isomerization seems to be effected merely by the NO<sub>2</sub> form. At +96°C as well as at +50°C, NO<sub>2</sub> is added quantitatively to the double bond. The resulting products are insoluble in a hydrocarbon medium. In case b) similar results were obtained. With a NO concentration of 6 moles, 40% of cis-butene-2 is converted to trans-butene-2 at 90°C within 2.5 hr. The reaction does not reach the equilibrium state, because NO2 is consumed by the addition. Neither hexaphenyl ethane at 96 - 130°C nor diphenyl-picryl hydrazyl at 20° and 60°C cause structural changes of the chain in case a). The disulfides decomposing into free radicals at 120°C (Refs. 1 - 4, see below) only lead to gel formation without isomerization, one radical being added to the double bond. It is assumed that the isomerization under the effect of RS radicals, which is described in Refs. 1 - 4, does not take place owing to their addition to the double bond, but only when an H atom is broken off from the chain. The mercaptan formed in stage 1 takes part in the chain transfer; this results Card 2/3

321:29 s/020/61/141/006/014/021 B103/B147

Cis-trans isomerization ...

in the regeneration of the RS° radicals. Such an isomerization has to be accompanied by a migration of the double bond:

There are 2 figures and 11 references: 4 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: Ref. 1: J. I. Cunneen, F. W. Shipley, J. Polym. Sci., 36, 77 (1959); Ref. 2: J. I. Cunneen et al., Trans. Inst. Rubber Ind., 34, 260 (1959); Ref. 3: J. I. Cunneen, W. F. Watson, J. Polym. Sci., 38, 521 (1959); Ref. 3: J. I. Cunneen, W. F. Watson, ib. 533.

Vsesoyuznyy nauchno-issledovatel'skiy institut sintetiches-ASSOCIATION:

kogo kauchuka im. S. V. Lebedeva (All-Union Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev)

August 18, 1961 SUBMITTED:

Card 3/3

YERMAKOVA, I.I.; KROPACHEVA, Ye.N.; DOLGOFLOSK, B.A., akademik; KOL\*TSOV,
A.I., akademik; NEL'S(N), K.V.

Interaction of 3-methyl-2-pentene with cation-type catalysts.

Dokl. NN SSSR 159 no.48835-838 D 164

1. Nauchmo-issledovatel\*skiy institut sinteticheskogo kauchuka
im. S.V. Lebedeva.

ITERUSALINGKII, N.D.; AMDREIEVA, Ye.A.; LIROVA, S.A.; YERMAKOVA, I.T.

Hydrocarbon exidation by yeast. Prikl. biokhim. i mikrobiol.

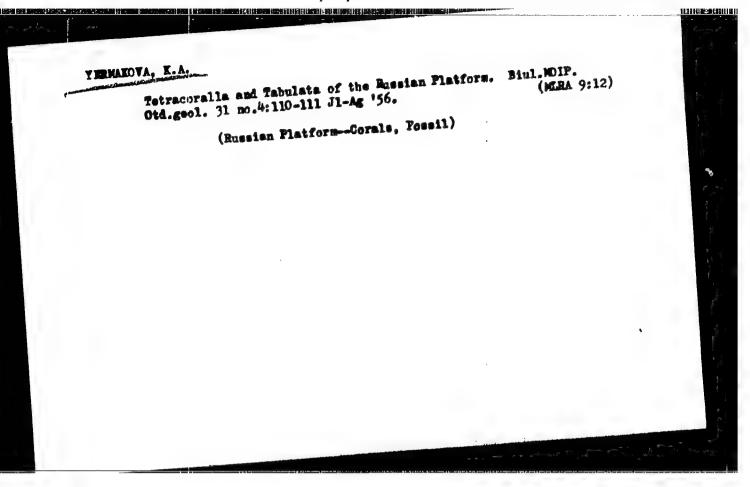
(MIRA 18:12)

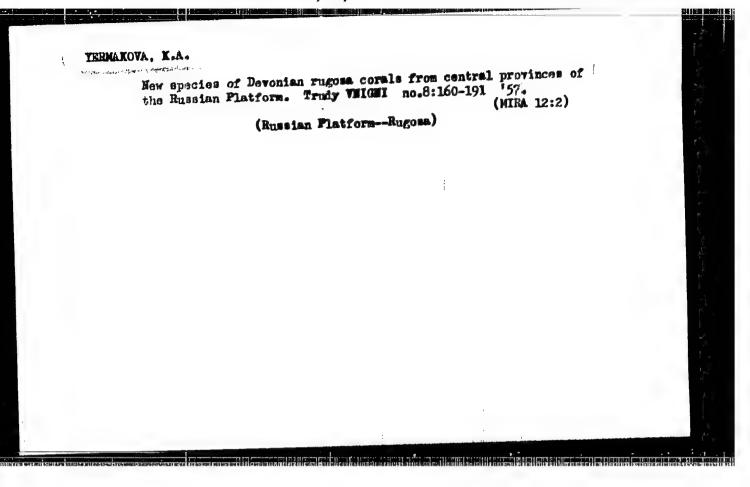
1. Institut mikrobiologii AN SSSR. Submitted Jan. 16, 1965.

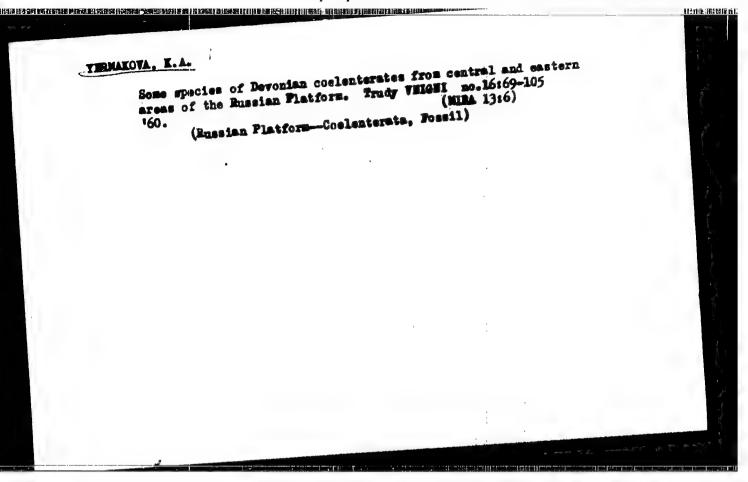
ACC NR: APOUZOU AUTHOR: Makar ORG: none TITLE: Fluori SOURCE: Zhurn TOPIC TAGS: 1 ABSTRACT: A acetonitrile W was conducted or explosions fluorination products were	SOURCE CODE: UR/0079/66/036/008/1419/1420  SOURCE CODE: UR/0079/66/036/008/1419/1420  Sov. S. P.; Yermakova, I. V.; Shpanskiy, V. A.  10 10 11 11 11 11 11 11 11 11 11 11 11 1	
Card 1/2	UDC: 547.23	

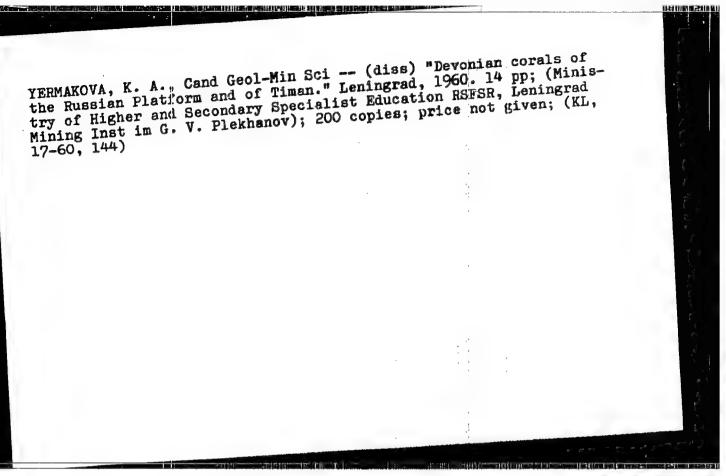
L 05870-67		
CC NR: AP6028896	$CH_3CN \xrightarrow{F_1} [CH_3CF_{m:N}F] \xrightarrow{F_2} CH_3CF_8NF_8,$	
	- CH <sub>3</sub> CN PL CH <sub>3</sub> FCN + HF.	
	CHIFCH TO CHESCN + HF.	
The cyclic product of Name of the cyclic product of the cyclic pro	could have been formed by dehydrofluoring CH <sub>2</sub> CV <sub>2</sub> NV <sub>2</sub> NaV CH <sub>2</sub> CV <sub>3</sub> .	
SUB CODE: 07/ SUB	M DATE: 17Jul65/ ORIG REF: 001/ OTH	[BO]
kh		• -
Card 2/2		

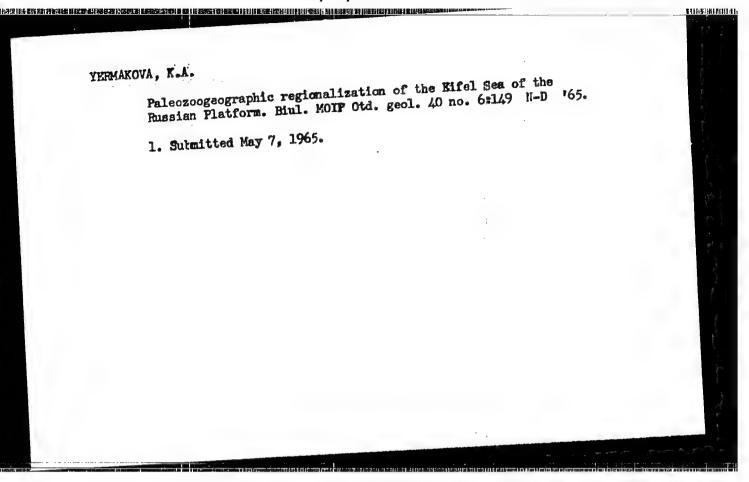
15-1957-3-2685 Referativnyy zhurnal, Geologiya, 1957, Nr 3, Translation from: p 24 (USSR) Yermakova, K. A. New Species of Vesicular Tetracorals (Novyye vidy puzyr-ATTHOR: chatykh korallov rugoza) TITLE: Tr. Vses. n.-i. geol-razved. neft. in-ta, 1956, Mr. 7, PERIODICAL: pp 31-36 The author describes in detail the following species from Middle Devonian (Givetian) rocks on the western slope of the northern Urals: Lythophyllum acquiresiculars sp. n. and L. acutum sp. n. (of the family Cystiphyllidae Roem., subfamily Lythophyllinae Wdkd.). The ABSTRACT: paper has one table. Card 1/1





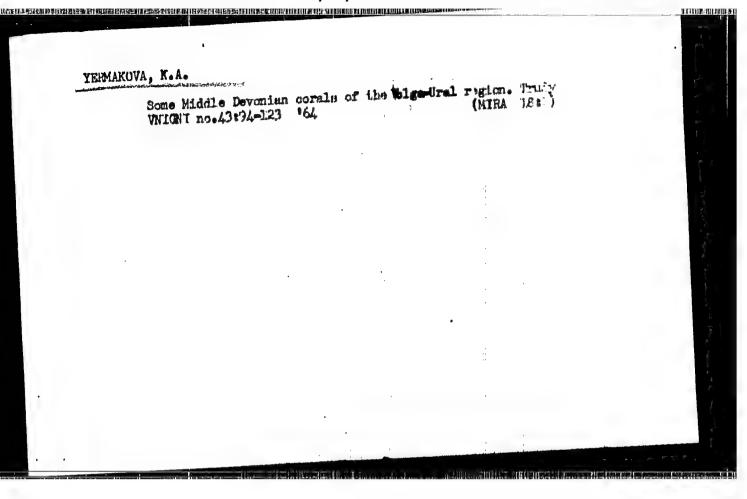






REZANOV, I.A.; NGO TKHYONG SHAN; SHEYNMANN, Yu.M.; RATS, M.V.; KRUG, O.Yu.;
ZYRYANOV, V.N.; RAKCHEYEV, A.D.; YAKOVLEVA, Ya.B.; PETROVA, M.A.;
PETROV, Yu.I.; KUZNETSOV, Ye.A.; YUDINA, V.V.; BARDINA, N.Yu.;
SIMANOVICH, I.M.; ATANSYAN, S.V.; SERGEYEVA, A.M.; PARFENOV, S.I.;
RUTKOVSKI, Yatsek [Rutkowski, Jacek]; MAKHLINA, M.Kh.; ZVEREV, V.P.;
TERHOVSKAYA, V.T.; SAMOYLOVA, R.B.; YERMAKOVA, K.A.; BYKOVA, N.K.;
MEYMEN, S.V.; BARSKOV, I.S.; IL'INA, L.B.; BABANOVA, L.I.;
DOLITSKAYA, I.V.; GORBACH, L.P.; BUTS'KO, S.S.; TRESKINSKIY, S.A.;
SVOZDETSKIY, N.A.; PRYALVKHINA, A.F.; GROSVAL'D, M.G.; MODEL', YU.M.;
GORYAINOVA, I.N.; MEDVEDEVA, N.K.; MYALO, Ye.G.; DOEROVOL'SKIY, V.V.;
KHOROSHILOV, P.I.; CHIKISHEV, A.G.

Brief news. Biul. MOIP. Otd. geol. 40 no.3:122-154 My-Je 165. (MIRA 18:8)



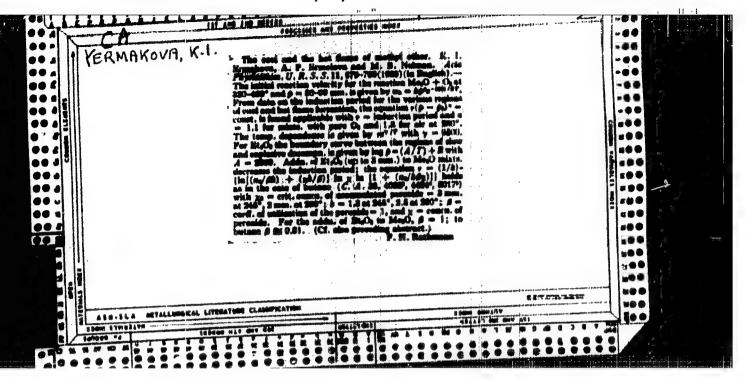
TERMAKOVA, K. G.

QUENTL', P.A.; ANDRETEVA, I.H.; YERMAKOVA, K.G.; TSVETEOVA, 1.V.

If fect of the new tillage system on the basic features in the physiology of wheat. Inv. AN SSER. Ser. blol. no.4:1403-465 JI-Ag '57. (MLRA 10:8)

1. Institut fisiologii resteniy im. E.A.Timiryaneva Akademii nauk BSSER.

(TILLAGE) (WHEAT)



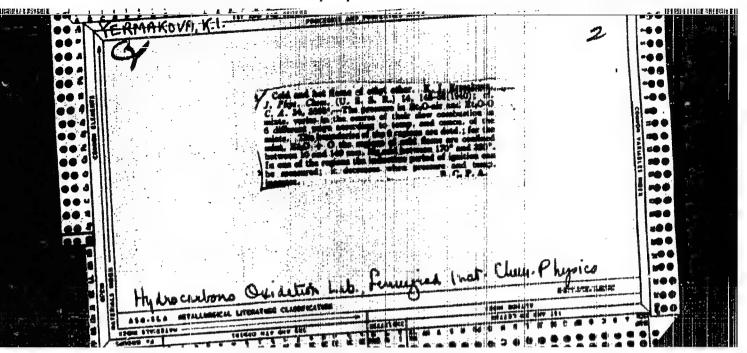
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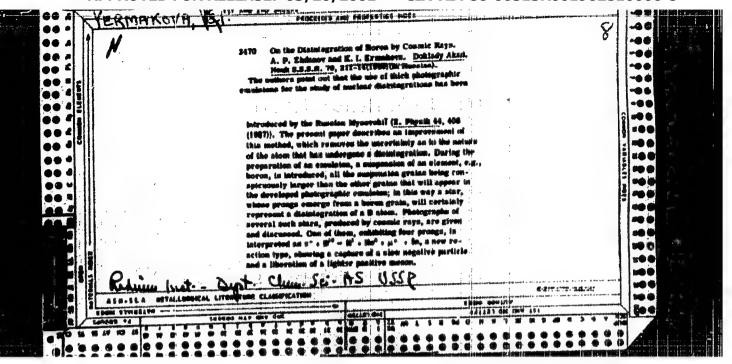
600

- YERMOLOVA, A.P.: NEYMAN, M. B. YERMAKOVA, K. I.;
- USSR (600)

"Research on the Conditions of the Combustion of Gaseous Mixtures - XV. The Cold and Hot Flames of Methyl Ether", Zhur. Fiz. Khim 13, No 12, 1939. Leningrad Inst. of Chemical Physics, Lab of the Oxidation of Hydrogarbons. Received 26 July 1939.

9. Report - U-1615, 3 Jan. 1952.





PERMAKOVA, KII

20-6-11/48

AUTHORS:

Zhdanov, A.P., Berkovich, I.B., Termakova, K.I., Lepekhin, F.G., Skirda, N.V., Modalova, Z. S...

TITLE:

An Interaction of High Energy Particles with Nuclei (0 vzaimodeystvii chastits vysokoy energii s yadrami)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 115, Nr 6, pp. 1093 - 1096 (USSR)

ABSTRACT:

The present paper describes the provisional results of the anahysis of seven rays with relatively great number of shower particles, which were produced in the interaction with emulsion nuclei. When inspecting one particle of the staple of Ilford G-5 emulsions (Il'ford G-5), which was irradiated for seven hours in a height of about 30 km, the authors chose that irradiation which was produced by neutral and charged particles. When analysing these cases rather reliable data were obtained only on the number of shower particles and on the angular distribution of which. The angles between the direction of motion of the primary partilce and the traces of the secondary particle were measured by the coordinate-method by the aid of the microscope MBI-8. The characteristics of these distributions are compared in a table. The authors graphically represented

Card 1/3

20-6-11/48

An Interaction of High Energy Particles with Nuclei

the dependence (1/N) N(0)d0 on 0. All rays were subdivided into three types. The Fays of the first type, which are characterized by a narrow cone, have a symmetrical integral distribution. The rays with a considerably larger cone and a higher number of charged particles belong to the second type. A further diagram illustrates the angular distribution for such ray in which not even within the range of small angles a symmetry can be ascertained. Each theoretical investigation of the mechanism of producing elementary particles statts from the symmetrical flying off of the developed particles in the center-of-gravity system. This corresponds to a certain symmetry of the angular distribution in the laboratory system. This symmetry is actually observed in the element. The most essential statements of the theory of Fermi-Landau can be applied to these cases. There are 4 figures, 2 tables and 8 references, 3 of which are Slavic.

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20-6-11/48

An Interaction of High Energy Particles with Nuclei

ASSOCIATION: Radium-Institute imeni V.G. Khlopin, AN USSR

(Radiyevyy institut im. V.G. Khlopina Akademii nauk SSSR)

PRESENTED: April

April 4, 1957, by A.F. Ioffe, Academician

SUBMITTED:

March 26, 1957

AVAILABLE:

Library of Congress

Card 3/3

YERMA KOVA, C.A.

8/181/60/102/04/25/034 B002/B063

14.7700 AUTHORS:

Koptsik, V. A., Yernakova, L. A.

TITLE:

Investigation of the Temperature Dependence of Electric and

Elastic Parameters of Cancrinite

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 697-700

TEXT: In an earlier paper (Ref. 2), the dielectric constant  $\varepsilon$ , as well as the piezoelectric and elastic moduli of cancrinite had been determined at room temperature. In the present paper, the authors determine its behavior between +20°C and -140°C. The temperature was measured with an accuracy of 0.2°C, the dielectric, piezoelectric, and elastic doefficients with an accuracy of 4, 9, and 3%, respectively. The same samples were used, that accuracy of 4, 9, and 3%, respectively. The same samples were used, that deviations which are explained by the aging in one year. Three different deviations which are explained by the aging in one year. Three different sections were examined (Figs. 2, 3, and 4). At low temperatures, anomalies occur in  $\varepsilon$  and the piezoelectric moduli; the precise position is dependent on the orientation of the cut. The anomalous dielectric behavior of cancrinite can be explained by the structure (Fig. 1): According to

Card 1/2

Investigation of the Temperature Dependence S/181/60/002/04/25/034 of Electric and Elastic Parameters of B002/B063 Cancrinite

V. A. Ioffe and I. S. Yanchevskaya, this anomaly corresponds to a resonance absorption at 180 kilocycles; it is possibly the consequence of an electron transition in the aluminum oxygen tetrahedron from one oxygen atom to another. The piezoelectric anomalies are apparently related to the dielectric ones. These conclusions are only provisional, an accurate investigation requires a better structural determination and an investigation on synthetic material. There are 4 figures and 6 references; 5 Soviet and 1 French.

ASSOCIATION: MGU, fisicheskiy fakul'tet

(Moscow State University, Department of Physics)

SUBMITTED: May 22, 1959

Card 2/2

9.5110 (ako 10.55, 1072) CURDO 1043, 1137, 1273

20714

5.4800

**\$/120/61/000/001/057/062** 

E194/E184

AUTHORS:

Koptsik, V.A., Strukov, B.A., and Yermakova, L.A.

TITLE:

A Precision Laboratory Cryostat for Investigating the

Electrical and Elastic Properties of Crystals

大手以外 3/25 所 (1537) THE OCCUPANT AND A STREET THE STREE

PERIODICAL: Pribory i tekhnika eksperimenta, 1961,No.1,pp.184-188

Progress in the development of laboratory cryostats is briefly reviewed. A circuit developed by B.N. Vasil'yev which was a further development of one used by Wilson and Stone (Ref.9) was used in constructing a precision laboratory cryostat for investigating the electrical and elastic properties of crystals in the region of polymorphous phase conversions. The apparatus was required to produce stable temperature points every 0.1-0.2 °C; the stabilisation of the temperature should be within ± 0.005 °C for a time of 30 minutes to one hour; the specimens should be maintained in vacuum or in an atmosphere of dry gas; electrical terminals in the thermostat chamber should be so designed as to ensure the complete absence of temperature gradients. The equipment consists of a cryostat, a temperature stabilising circuit, a vacuum system and a potentiometer circuit:for Card 1/7

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#### **S/120/61/000/001/**057/062 **E194/E184**

A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

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temperature measurement. The thermostat chamber of the cryostat consists of a copper block (9 in Fig.1), 180 mm high and 45 mm in diameter. In the cylinder are drilled two cylindrical ducts over three quarters of its length. One duct is used for thermocouples and the other for ampoules with specimens. The outer surface of the cylinder is threaded with a four start thread; two of the grooves contain nichrome wire heaters and the other two platinum The heater resistance is 1 kilohm and resistance thermometers. the thermometer resistance is 300 ohms. Under conditions of automatic control the surface of the copper block is maintained at a constant temperature. Because of the good thermal conductivity of the copper, after an interval of 10-15 minutes the same temperature is established in the volume for the test specimen. The copper block 9 covered with an aluminium screen 10 is placed in a cylindrical glass vessel with double walls. The inner space is connected to a vacuum flask containing liquid nitrogen. The temperature sensitive element is the platinum resistance Card 2/7

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810006-8"

20714

S/120/61/000/001/057/062 E194/E184

A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

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thermometer would on the copper block and connected in a balanced bridge circuit, the other arms of which are manganese resistances and an inductionless resistance box. When the resistance of the platinum thermometer alters, it alters the phase of the output signal from the bridge and the function of the rest of the circuit is to apply the necessary (amount of heat to the heater to maintain the resistance of the platinum thermometer equal to that of the resistance box. A schematic diagram of the control system is given in Fig. 2 and the method of operation is explained. vacuum system consists of two main parts, one of which is used to evacuate the inner cylinder of the cryostat and the other to pump from the glass ampoule with specimen holder. The system includes a rotary vacuum pump, an oil vapour trap and appropriate valves and The required temperature is obtained pressure measuring devices. and maintained as follows. The copper block with theampoule is placed in the inner vacuum flask of the cryostat. Liquid nitrogen is poured into the outer flask in which the level of nitrogen is Card 3/7

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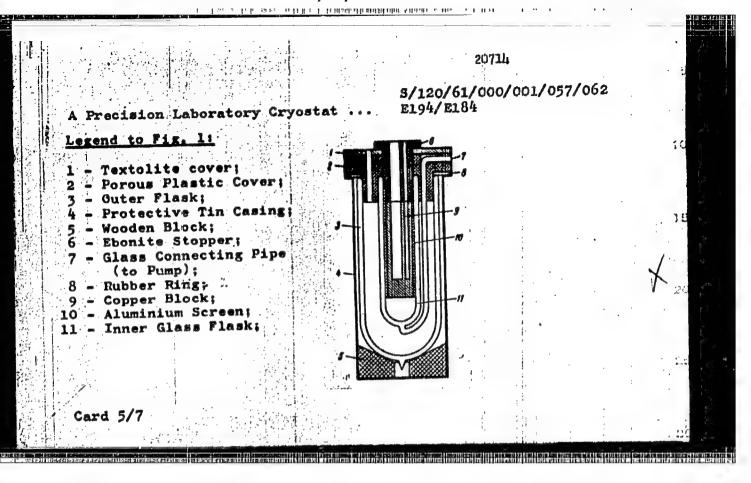
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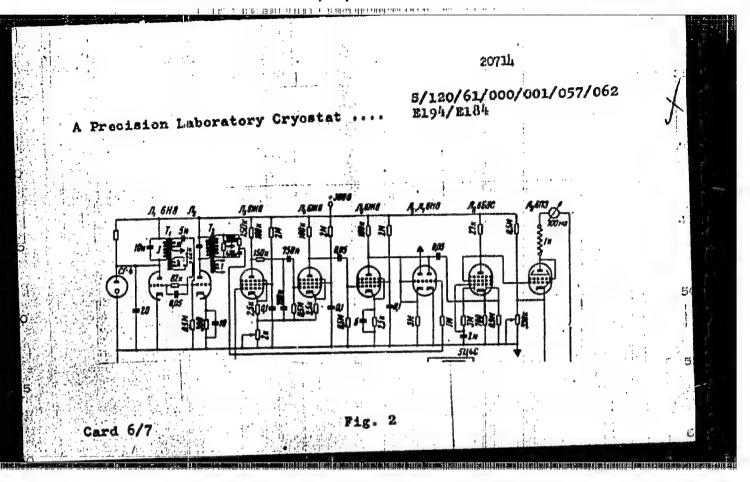
A Precision Laboratory Cryostat for Investigating the Electrical and Elastic Properties of Crystals

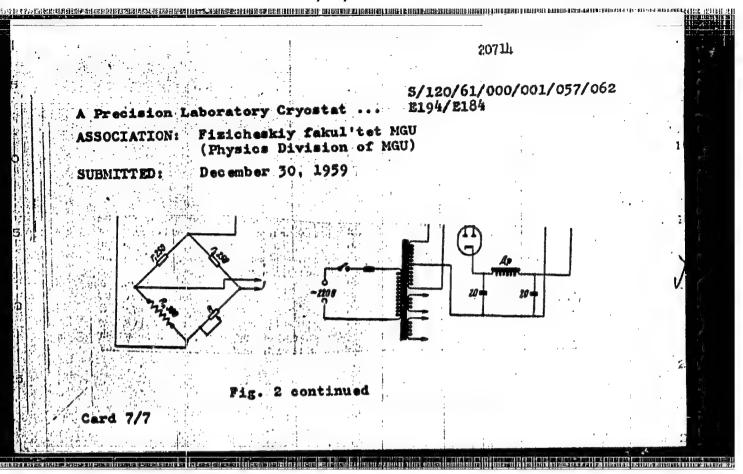
automatically maintained. Cooling commences at a rate of about 0.5 OC/min. When within 3 to 40 of the temperature required to stabilise, the inner vacuum flask is evacuated until the pressure in it reaches 10-3 mm Hg, then the rate of cooling rapidly diminishes. The bridge is then balanced by means of the resistance blocks. The automatic temperature control circuit is then connected and any further reduction in temperature takes place in steps controlled by the resistance blocks. The accuracy of stabilisation was checked by measuring the e.m.f. of a triple copper constantan thermocouple with a sensitivity of 0.1 mV/oc During 60 minutes the temperature changed by less than 0.005 oc. The cryostat has been working for two years and temperature characteristics of a number of crystals have been obtained. Gratitude is expressed to B.N. Vasil'yev for useful suggestions and to A.F. Solov'yev for help in setting up the circuit. There are 3 figures and 13 references: 5 Soviet and 8 English. Card 4/7

#### "APPROVED FOR RELEASE: 03/20/2001

#### CIA-RDP86-00513R001962810006-8





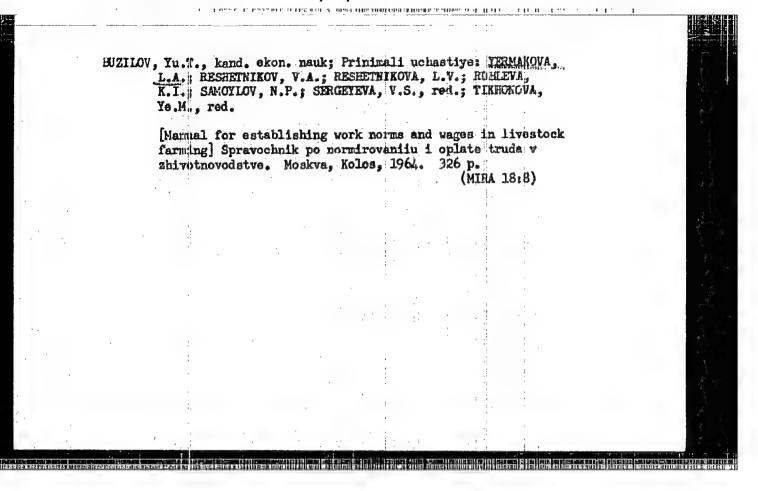


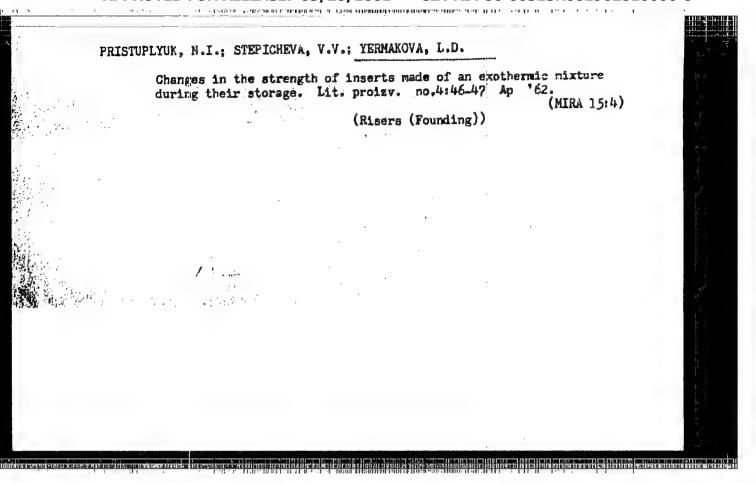
KOPTSIK, V.A.; STRUKOV, B.A.; YERMAKOVA, L.A.

Precision cryostat for studying electric and elastic properties of crystals in laboratories. Prib. i tekh. eksp. 6 no.1:184-188

Ja-F '61. (MIRA 14:9)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universiteta. (Cryostat)





CHERNYSHEV, M.P.; ROZHKOV, L.P.; SHUL'GINA, Ye.F.; IGNATOVICH, A.F.;
LABUNSKAYA, L.S.; FOMINA, T.V.; CHERNYAKOVA, A.P.; SHPAKOVA,
L.N.; TARASOVA, M.K.; ANFILATOVA, A.I.; SLAVIN, L.B.;
BARYSHEVSKAYA, G.I.; DERIGLAZOVA, N.V.; MATUSHEVSKIY, G.V.;
AL'TMAN, E.N.; KROPACHEV, L.N.; CHEREDILOV, B.F.; POTAPOV,
A.T.; DUDCHIK, M.K.; REGENTOVSKIY, V.S.; YERMAKOVA, L.F.;
SEMENDVA, Ye.A.; KULIKOVSKIY, I.I.; KIRYUKHIN, V.G.; ANSENOV,
A.A., red.; NEDOSHIVINA, T.G., red.; SERGEYEV, A.N., tekhn.
red.; BRAYNINA, M.I., tekhn. red.

[Hydrometeorological handbook of the Sea of Asov] Gidrometeorologicheskii spravochnik Azovskogo moria. Pod red. A.A.Aksenova. Leningrad, Gidrometeoizdat, 1962. 855 p. (MIRA 16:7)

1. Gidrometeorologicheskaya observatoriya Chernogo i Azovskogo morey,

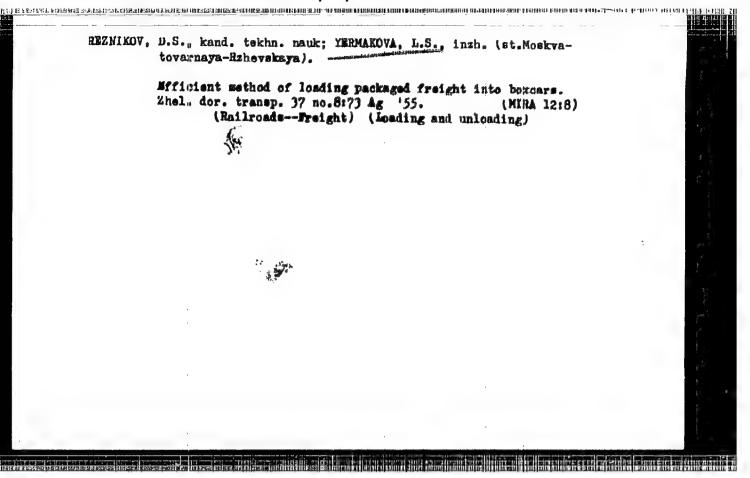
(Azov. Sea of-Hydrometeorology)

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810006-8"

YERMAKOVA, L.P.

- 1. TYUTYUNNIKOV, B. N., PROF., ERMAKOVA. L. P.
- 2. USSR (600)
- 4. Cleaning Compounds
- 7. Device for determining the detergent action of solutions of cleaning agents. Masl, zhir. prom. 17. no. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.



SHOSTAKOVSKIY, M.P.; SOKOLOV, B.A.; YERMAKOVA, L.T.

Synthesis of p-chlorophenyltrichlorogermans. Zhur.ob.khim. 32 no.5:1.714 My •62. (MIRA 15:5)

1. Irlutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

(Germane)

S/079/62/032/005/009/009 D204/D307

AUTHORS: . Shostakovskiy, M.F., Sokolov, B.A., and Yermakova, L.T.

TITLE: Synthesis of p-chlorophenyl trichlorogermanium (I)

PERIODICAL: Zhurnal obshchey khimii, v. 32, no. 5, 1962, 1714

TEXT: The authors carried out, for the first time, a high temperature condensation of HGeCl<sub>3</sub> with p-dichlorobenzene. The mixture, in the ratio 1:1, was passed through a quartz tube 900 mm long and 22 mm in diameter, at 550°C. The condensate, I, was collected in a trap cooled with dry ice, in 11.5 % yield. B.p. 105 - 107°C/5 mmHg; n<sup>20</sup> 2.5738; d<sup>20</sup> 1.6467. Found Cl 47.21 %; calculated Cl 48.81 %. Increasing the HGeCl<sub>3</sub>: p-Cl-C<sub>6</sub>H<sub>4</sub>-Cl ratio to 2:1 raised the yield to 16 %. Only traces of PhGeCl<sub>3</sub> were obtained when PhCl was substituted in place of ClC<sub>6</sub>H<sub>4</sub>Cl, under the same conditions. PhGeCl<sub>3</sub> prepared by the Grignard reaction had a b.p. of 80°C/6 mmHg, n<sup>20</sup> Card 1/2

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Synthesis of p-chlorophenyl ...

8/079/62/032/005/009/009 D204/D307

1.6641. [Abstractor's note: Essentially complete trans-

lation].

ASSOCIATION: Irkutskiy institut organicheskiy khimii sibirskogo ot-deleniya Akademii nauk SSSR (Irkutsk Institute of Orga-nic Chemistry, Siberian Branch of the Academy of Scien-

ces, USSR)

SUBMITTED:

October 14, 1961

Card 2/2

ACCESSION NR: AP3CGI485

AUTHOR: Shortakovskiy, K. F.; Soloolov, H. A.; Roalanko, A. J., Sulvangarayev,
R. O.; Termslova, I. T.

TITLE: High temperature condensation of fluorabelessations.

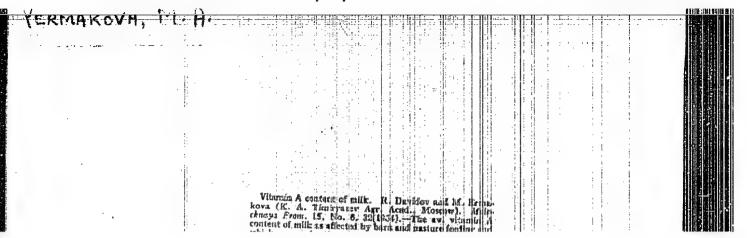
SOURCE: Zhurmal obsicher khimii, v. 31, no. 5, 1963, 1696

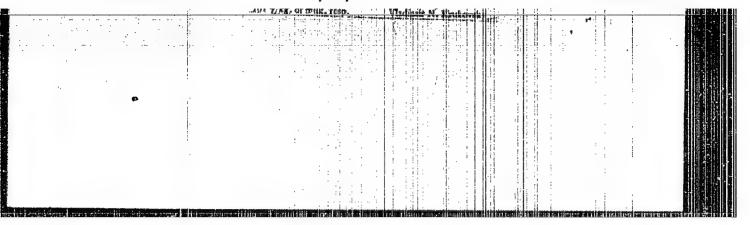
TOPIC TACS: methylphenyldifluorosilane

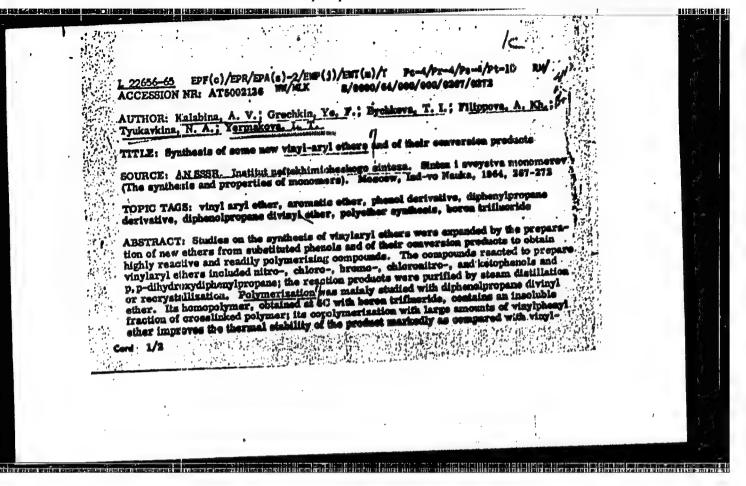
ABSTRACT: Methyl difluorohydrosilane was ocaldensed with chicrohemaune at 640
degrees to form methylphenyldifluorosilane.

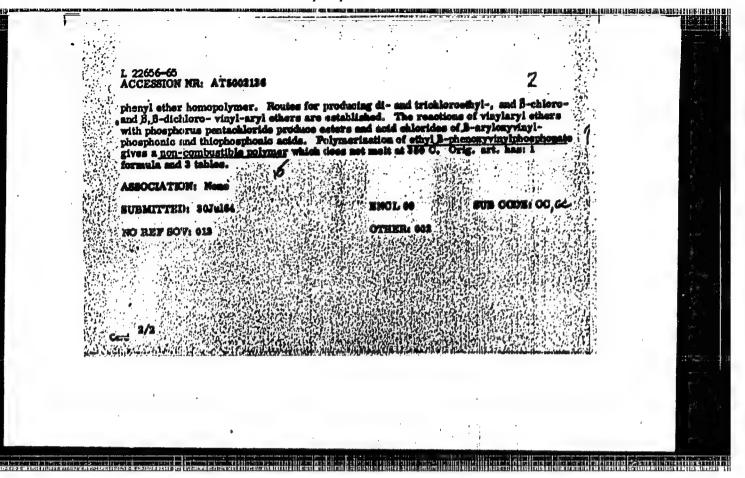
ASSOCIATION: Irkuskiy institut organicheakov khimii Sibamahana atdalani atdalani atdalani atdalani atdalani.

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Card I/1	the same and an own or the same standard applications.				• • • • • • • • • • • • • • • • • • • •	









DAVIDOV, Ruben Bagdasarovich; GUL'KO, Liya Yefimovna; YERMAKOVA, Mariya Alakseyevna; BUKIN, V.N., professor, doktor biologicheskikh nauk, retsenzent; INIKHOV, G.S., professor, doktor khimicheskikh nauk, retsenzent; DEVYATNIN, V.A., kandidat khimicheskikh nauk, spetsredaktor; AKIMOVA, L.D., redaktor; CHEBYSHEVA, Ye.A., tekhnicheskiy redaktor

[Principal vitamins in milk and milk products] Cenovnye vitaminy v moloka i molochnykh produktakh. Moskva, Pishchepromisdat, 1956.
229 p.
(MILK) (VITAMINS)

YERMAKOVA, M. A. Cand Agr Sci -- (diss) "Change in the Content of eng and in Vitamins A and E in Milk and Dairy Products on Feeding Green Conveyer Gatale With Various Galaires of Verdure." Mos, 1957. 16 pp 20 cm. (Mos Order of Lenin Agricultural Academy im K. A. Timiryazev), 110 copies (KL, 25-57, 115-116)

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USSR / Farm Animals. Cattle:

Q

Ref Zhur - Biologiya, No 2, 1959, No. 7321 Abs Jour

Author Yermakova, M. A.

Inst Moscow Academy of Agriculture imeni K. A.

Timiryazev

The Vitamin Composition of Milk and of Milk Title

Products when a Green Conveyer is Used

: Dokl. Mosk. s.-kh. akad. im. K. A. Timirya-zeva, 1957, vyp. 30, ch. 2, 210-215 Orig Pub

Abstract : It is pointed out that when cows are changed to rations with green feeds, the A-vitamin activity of the milk and of milk products

increases 3-6 times as compared to the winter period. The most intensive A-vitamin activity

of milk and milk products is achieved with

Card 1/2

USSR / Farm Animals. Cattle.

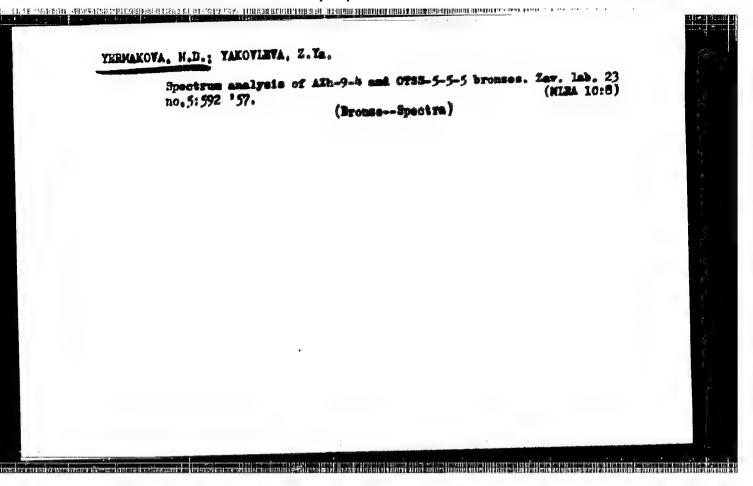
Q

Abs Jour : Ref Zhur - Biologiya, No 2, 1959, No. 7321

clover and Timothy grass feedings, the most intensive E-vitamin activity of the milk is obtained with Sudan grass feedings.

Card 2/2

28



FORTHA, Q.A.; SMIRROY, M.S.; YESHAKOVA, M.D.; YAKOYLEVA, Z.Ya.; QARVILOY, Q.A.

Brief reporte, Zev. lab. 23 mo.5:993 '57. (MLRA 10:8)

(Spectrum analysis) (Metallungical analysis)

5 (3) AUTHORS:

Postovskiy, I. Ya., Yermakova, M. I.

2744年17年2年,至27年7年,至15年7年15年,元代57年,任司中四年第5年15年15日,15日11年15日,15日11年15日,15日11年15日日 15日11年15日 15日11年15日 15日11年15日

\$0**V**/79-29-4-63/77

TITLE:

Synthesis of Some Formasanes, Thiohydrazides, and Thiadiazdines With a Carbohydrate Radical (Sintez nekotorykh formazanov,

tiogidrazidov i tiadiazolinov s u.:levodnym ostatkom)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1333 - 1340

(USSR)

ABSTRACT:

Among the physiologically active heterocyclic compounds those in which the heterocycle is linked to the sugar radical by a straight C-C-bond are very interesting (Refs 1-9). The sulphurous heterocycles are especially interesting among these compounds. Therefore syntheses of some heterocycles with a carbohydrate radical were carried out here, since the publications give only few data (Refs 10-16). The synthesis of some 1,3,4--thiadiazolines which contain in position 5 a carbohydrate radical is described. They were obtained by the reaction of the hydrazides of thialdonic acids (I) which contain a galactoseand arabinose radical with carbonyl compounds according to scheme 1. Formaldehyde, acetone, benzaldehyde, o-methoxybenzal-

Card 1/3

dehyde and furfurol were used as carbonyl compounds for the

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Synthesis of Some Formasanes, Thiohydrazides, and Thiadiazolines With a Carbohydrate Radical

SOV/79-29-4-63/77

condensation. Thiohydrazides (I) necessary for the synthesis of the thiadiazolines (II) were reduced with Hos according to the method of G. Zemplen (Ref 17) by reduction of the formacyl compounds (III) where R' i represents a carbohydrate radical (Scheme 2). The formosanes can take part in the reactions in two tautomeric forms (III a) and (III b). If R differs from R', 4 products are bound to be synthesized according to the scheme, i. e. 2 thiohydrazides and 2 hydrazines. In the case of R=R', however, only one thiohydrazide and one hydrazine are bound to result. In the case of the reduction of the compounds (III), (V), (VII), and (IX) (Table 1) where R=R' the hydratides of the thiogalactonic- and thioarabonic acid (X), (XI), (XII), and (XIII) (Table 2) were obtained. In the case of the reduction of (IV), (VI), and (VIII), where R n R' are different, unexpectedly only one thiohydrazide was obtained with a not substituted aryl, and a substituted aryl hydrazine. Thus the equilibrium shifted in the reaction towards the direction of the "form" a which is interesting with respect to the new data on the tautomerism of the asymnetrical formazanes in dependence on the nature of the radicals

Card 2/3

Synthesis of Some Formasanes, Thiohydrazides, and SOV/79-29-4-63/77 Thiadiazolines With a Carbohydrate Radical

> R and R. (Ref 18). The thiohydrazides react smoothly with aldehydes in the hydrochloric acid containing alcohol medium under formation of 1,3,4, thiadiazolines (Table 3) which crystallite easily and are soluble in alcohol, dioxane, and acetone dirficultly soluble in benzene and chloroform, insoluble in water. The thichydrazides and thiadiazolines have a slight antitubercular activity. There are 3 tables and 21 references, 3 of which are Soviet.

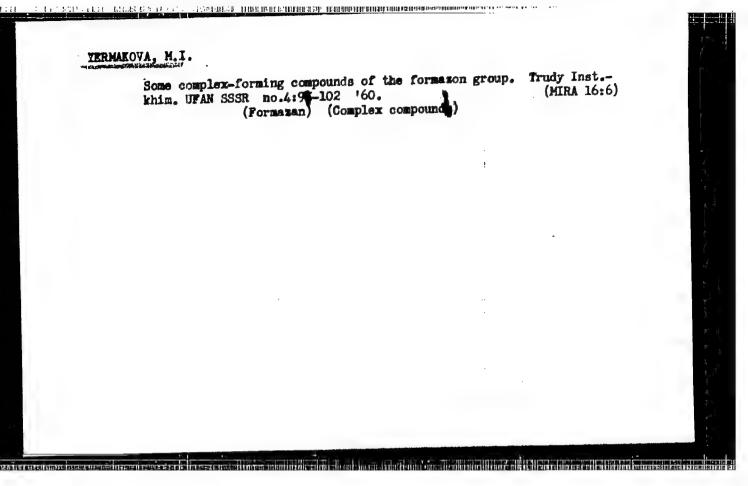
ASSOCIATION: Ural'skiy filial Akademii nauk SSSR (Ural Branch of the Academy

of Sciences. USSR)

SUBMITTED:

March 20, 1958

Card 3/3



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SOV/79-30-3-23/69

AUTHORS:

Yermakova, M. Irya Krylov, Ye. I., Postovskiy, I. Ya.

TITLE:

Structure of Formazans. Study of the Magnetic

Susceptibility of Complex Compounds of Copper, Cobalt,

and Nickel With Formazans

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol 30, Nr 3,

pp 849-854 (USSR)

ABSTRACT:

Complexes of Cu, Co, and Ni were prepared with the following formazans: 1,3,5-triphenylformazan, 1-p-toly1-3,5-diphenylformazan, 1-p-chlorophenyl-3,5-diphenylformazan, and 1-o-carboxyphenyl-3,5-diphenylformazan. The physical constants of the

prepared complexes are shown in Table 1.

Card 1/8

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Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 **\$0V/**79**-**30**-3-**23/69

Table 1. Key: (1) Complex compounds of formazans; (I) (Bis-1,3,5-triphenylformazyl)-copper; (II)

Bis-(1-p-toly1-3,5-diphenylformazyl)]-copper; (III) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)]-copper; (IV) 1-o-Carboxyphenyl-3,5-diphenylformazyl-copper; (V) [Bis-1,3,5-triphenylformazyl)]-cobalt; (VI) [Bis-(1-p-tolyl-3,5-diphenylformazyl)]-cobalt; (VII) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)]-cobalt; (VIII) (Bis-1,3,5-triphenylformazyl)]-nickel; (IX) [Bis-(1-p-tolyl-3,5-diphenylformazyl)]-nickel; (X) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)]-nickel; (XI) (1-o-Carboxyphenyl-3,5-diphenylformazyl)-nickel; (2) Empirical formula; (3) Mp; (4) Found; (5) Literature; (6) Nitrogen content (%); (7) Found; (8) Calculated; (9) Metal content (%); (10) Found; (11) Calculated.

card 2/8

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		a	4	5	7.	8	10	11	
	I	CanH <sub>Str</sub> N <sub>B</sub> Cu	159 1609	1589	17.15	16,92	9.21	9.59	
	п	C <sub>10</sub> H <sub>34</sub> N <sub>8</sub> Cn	158—159	156	16,01	16.24	9.35	9.20	
	ın	C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Cu	166—168		15.38	15,33	8.54)	8.69	
	IV	$C_{20}\Pi_{14}O_2N_4Cu$	231 decomp	228 ძ <b>e</b> c ი <i>m ף</i> -	13,60	13.80	15.47	15.65	
Card 3/8			,	•	•				

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		e I conti C <sub>38</sub> H <sub>30</sub> N <sub>8</sub> Co		lane non	147.00	17,04	أنما		
	•	035113011600	121-220	228-2-H)	11.60	17,174	9.11	8.90	
	VI	C <sub>40</sub> H <sub>34</sub> N <sub>8</sub> Co	236-237	238	16.37	10,35	8.61	8.59	
	VII	C38H28NgClqCo	184—185		45 (9	15.44	8.03	8.11	- 67
						10/11	0		1.74
	vnr	C <sub>38</sub> H <sub>30</sub> N <sub>8</sub> Ni	306	200	47.50			0.00	
	VIII	281120148141	decomp	300 dusomp.	17.30	17.05	8.77	8.93	
•	ТX	C <sub>to</sub> H <sub>34</sub> N <sub>3</sub> Ni	293	287	16.42	16.35	8.42	8.56	
•		:	decomp	decomp.		'	·		
	x	C <sub>38</sub> H <sub>28</sub> N <sub>8</sub> Cl <sub>2</sub> Ni	288		15.12	15.44	7.85	8,04	
			decemp.			10.11		<b>3.</b>	
	XI	C <sub>20</sub> H <sub>14</sub> O <sub>2</sub> N <sub>4</sub> Ni	275	270	14.37	13,07	14 82	44 114	
			decomp	decomp					
	Table 2 s	shows the compounds	magne	tic sus	cept	ibi.	Lity	of the	
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CIA-RDP86-00513R001962810006-8

Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 8**0V/**79-30-3-23/69

Table 2. Key: (1) Magnetic susceptibility of complex compounds of formazan with copper, cobalt, and nickel (at the intensity of magnetic field 2260 oersted); (2) Temperature, K; (3) L Effect(in Bor's magnetones). (1) (Bis-1,3,5-triphenylformazyl)-copper; (II) [Bis-(1-p-tolyl-3,5-diphenylformazyl)] -copper; (III) [Bis-(1-p-tolyl-3,5-diphenyl-formazyl)] -copper; (IV) 1-o-Carboxyphenyl-3,5-diphenyl-formazyl-copper; (V) (Bis-1,3,5-triphenyl-formazyl)-cobalt; (VI) [Bis-(1-p-tolyl-3,5-diphenyl-fromazyl)] -cobalt; (VII) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)] -nickel; (IX) [Bis-(1-p-tolyl-3,5-diphenylformazyl)] -nickel; (X) [Bis-(1-p-chlorophenyl-3,5-diphenylformazyl)] -nickel; (XI) (1-o-Carboxy-3,5-diphenylformazyl) -nickel.

Card 5/8

APPROVED FOR RELEASE: 03/20/2001 CIA-RDP86-00513R001962810006-8"

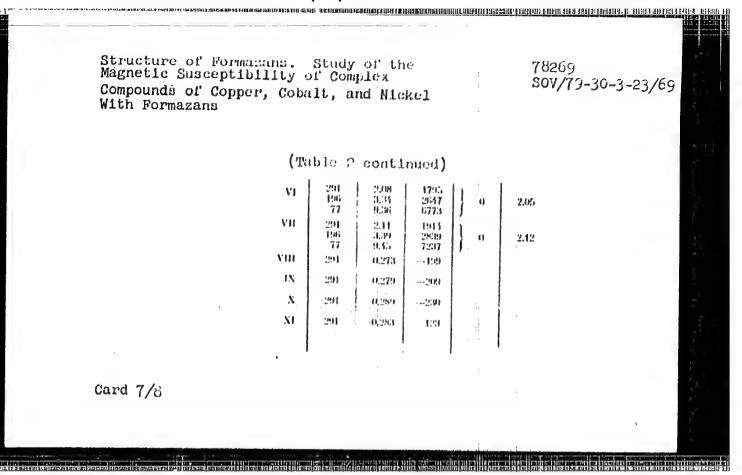
Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

78269 SOV/79-30-3-23/69

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,	2	*g - 10*	* <sub>M</sub> - 10°	4° K	3
I	293 196 77	1.55 2.79 8.00	1381 2197 5052	} +5	1.81
Ħ	291 196 77	1.62 2.80 3.01	1494 2303 . 5900	}+4	1,87
111	293 196 77	2.14 3.35 8.56	1900 2822 6637	}10	2.08
14	291 196 77	3.37 5.22 14.60	1557 2303 6116	} -1-4	1.90
<b>v</b>	291 196 77	1.86 3,07 8.58	1572 2365 5993	} 0	1.03

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Structure of Formazans. Study of the Magnetic Susceptibility of Complex Compounds of Copper, Cobalt, and Nickel With Formazans

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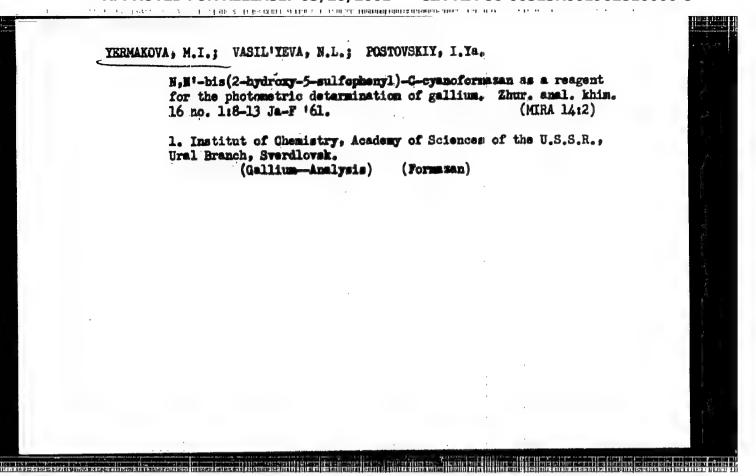
The measurements of the magnetic susceptibility of the obtained complexes indicate the planar position of the formazyl group structure. There are 2 tables; 2 figures; and 13 references; 3 U.K., 3 German, 2 U.S., 2 Austrian, 1 French, 2 Soviet. The 5 U.S. and U.K. references are: Nineham, A. W., Chem. Revs., 355 (1955); Hunter L., Roberts, C. B., J. Chem. Soc., 822 (1941); Figgis, B. N., Nyholm, R. S., J. Chem. Soc., 12 (1954); Kondo M., Kubo M., J. Phys. Chem., 62, 468 (1958); Bhatnagar, S. S., Khana, M. I., Nevgi, M. B., Philosoph. Mag., 25, 234 (1938).

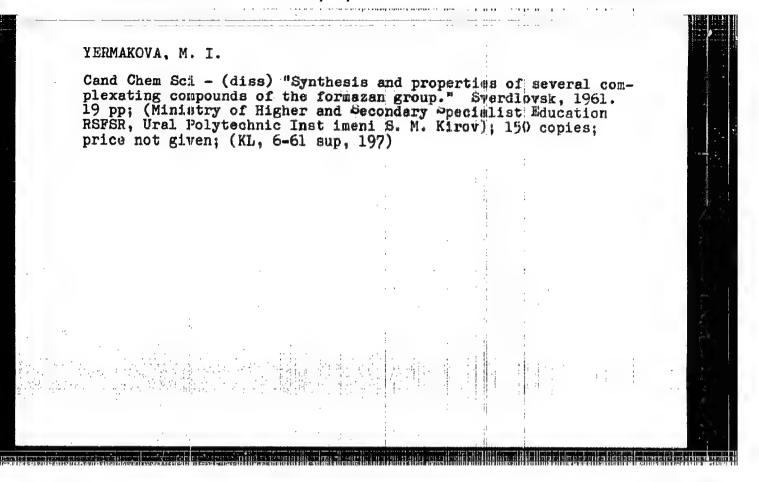
ASSOCIATION:

Institute of Chemistry of the Ural Branch of the Academy of Sciences of the USSR (Institut khimii Ural'skogo filiala Akademii nauk SSSR)

SUBMITTED: Card 8/8

March 18, 1959





VASIL'YEVA, N.L.; YERMAKOVA, M.L.; POSTOVSKIY, I.Ya.

Determination of gallium with N.M-di(2-hydroxy-5-sulfoplienyl)
C-cyanoformasan. Zhur. VKHO 5 no.1:110 '60. (HRA 14:4)

1. Institut khimii Ural'skogo filiala Akademii nauk SSSR.

(Sallium-Analysis)

 S/075/63/018/001/003/010 E071/E452

AUTHORS:

Vasil'yeva, N.L., Yermakova, M.I.

TITLE:

Use of formazans in analytical chemistry

Communication 2. The determination of gallium with N,N'-di(2-hydroxyphenyl)-C-cyanformazan

PERIODICAL: Zhurnal analiticheskoy khimii, v.18, no.1, 1963, 43-51

A compound N,N'-di(2-hydroxyphenyl)-C-cyanformazan was synthesized and its interaction with gallium studied. on conditions, the formazan forms two blue compounds with absorption maxima at 634 and 630 mg. The compounds have the nature of internal complexes - nonelectrolytes. The range of existence of one complex is pH 2-5 and that of the other is On the basis of optical properties of solutions, pH above 5. chemical composition, X-ray and dehydration properties of crystalline precipitates as well as equilibria studies in solutions, the probable atructure of the compounds is proposed. Depending on the pH of the medium gallium coordinates either with the ionic (pH > 5) or undissociated form of formazan (pH < 5) on changes of pH the compounds undergo a reversible transformation. Card 1/2

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S/075/63/018/001/003/010 E071/E452

Use of formazans ...

The molar ratio of gallium to formazan is 1:1. N,N'-di(2-hydroxyphenyl)-C-cyanformazan is recommended for the photometric determination of gallium in the presence of aluminium, zinc, lead, cadmium, manganese and small quantities of indium, germanium, copper and nickel. The two last elements are separated from gallium by extraction with benzene. The sensitivity of the reaction is  $0.04~\mu g/ml$  of gallium. Z.M.Podkina participated in the work. There are 6 figures and 1 table.

ASSOCIATION: Institut khimii Ural'skogo filiala AN SSSR,

Sverdlovsk (Institute of Chemistry, Ural Branch

AS USSR, Sverdlovsk)

SUBMITTED: April 7, 1962

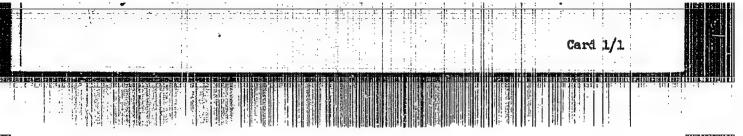
Card 2/1

AID Nr. 995-7 21 June

A FORMAZAN AS A NEW REAGENT FOR THE DETERMINATION OF Zr (USSR)

Vasil'yeva, N. L., and M. I. Yermakova. Zhurnal analitich skoy khimii, v. 18, no. 4. Apr 1963, 545-547. S/075/63/018/0-4/014/015

A, method is proposed which uses. N. N-bis (2-hydroxy-5-sulfophenyl) - C-quana-



YERMAKOVA, M.I.; POSTOVSKIY, I.Ya.

Chemistry of formazans. Part 7: Reaction with diazonium salts and the aminomethylation of 1,5-diphenylformazan. Zhur. ob. khim. 34, no.9:2855-2859 S'64.

(MIRA 17:11)

1. Institut khimii Ural'skogo filiala AN SSSR.

L 10456-67 EVT(1)/EEC(k)-2/EWP(k)IJP(c) ACC NRI AP6023877 SOURCE CODE: UR/0109/66/011/007/1321/1322 AUTHOR: Golant, M. B.; Savel'yev, V. S.; Korotkova, Z. S.; Alekseyenko, Z. T.; Yermakova, M. I. ORG: none TITLE: Laser and Wif-tube bands overlap SOURCE: Radiotekhalka i elektronika, v. 11, no. 7, 1966, 1321,-1322 TOPIC TAGS: laser, backward wave tube ABSTRACT: In 1964, Yeu Ta reported the development of a BW-tube operating at a wavelength of 0.39 mm (Traveaux du 5 congress international, Paris, 14-18 Sept, 1964) In the same year H. A. Gebbie et al. reported the development of a laser operating. at 0.337 mm (Nature, v. 202, 4933, 685, 1964). In 1965, Soviet researchers designed a EW-tube operating at 0.296 mm. Thus, the laser band and EW-tube band have become overlapped. "The authors wish to thank, N. A. Irisova and Ye. A. Vinogradov for their help in organizing measurements." Orig. art. has: no figure, formula or table. SUB CODE:20 / SUBM DATE: 21Feb66/ ORIG REF: 002 / OTH REF: 002 UDC: 621.385.6.029.67+621.370.325

AUTHOR: Andrienov, K. A.: Yermakova, M. N., Bablina, G. P., 44,53

ORG: Institute of Macromolecular Compounds, AN SSSR (Institut vysokomolekulyernykh soyedineniy AN SSSR)

TITLE: Condensation of borondimethylsiloxana oligomers with tributoxyaluminum

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 10, 1965, 1771-1775

TOPIC TAGS: organoboron compound, organoaluminum compound, oligomer, condensation reaction, bigh polymer holymer physical chemistry, nolymer atructure, plastic deformation, elongation, 5/LOXANE

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